

PROJECT ADMINISTRATION DATA SHEET

ORIGINAL

REVISION NO. \_\_\_\_\_

Project No. E-16-C04 (subproject is G-35-C04)

DATE: 8/26/81

Project Director: Dr. C. G. Justus

School/Lab Aerospace Engineering

Sponsor: Department of Energy; Oak Ridge, TN

Type Agreement: Grant No. DE-FG05-77ET20153, Amend. # A004

Award Period: From 7/1/81 To 6/30/82 (Performance) 12/31/82 (Reports)

Sponsor Amount: \$60,000 (\$38,522 in E-16-C04 and \$21,478 in G-35-C04) Contracted through:

Cost Sharing: \$1,660 (E-16-360) ~~CSA~~/GIT

Title: Solar Energy Meteorological Research and Training Site

ADMINISTRATIVE DATA

OCA CONTACT Leamon R. Scott

1) Sponsor Technical Contact: Mort Prince; Department of Energy; Division of Planning and Technology; 600 E. Street, N.W.; Washington, D. C. 20545  
202-376-4982

2) Sponsor Admin./Contractual Contact: J. D. Burleson, Contracting Officer; Contract Management Branch; Procurement & Contract Division; Department of Energy; Box E; Oak Ridge, TN 37830; Phone 615-576-0794

Reports: See Deliverable Schedule Security Classification: N/A

Defense Priority Rating: N/A

RESTRICTIONS

See Attached DOE Supplemental Information Sheet for Additional Requirements

Travel: Foreign travel must have prior approval - Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of \$500 or 125% of approved proposal budget category.

Equipment: Title vests with GIT

COMMENTS: Continuation of E-16-C03. Portion of Amend. 4 (\$100K) appears in E-16-C03 and related subprojects while balance (\$60K) is in E-16-C04 and related subprojects. This split due to \$60K being based on MTDC.

COPIES TO:

Administrative Coordinator	Research Security Services	EES Research Public Relations
Research Property Management ✓	Reports Coordinator (OCA)	Project File (OCA)
Accounting Office	Legal Services (OCA)	Other: _____

SPONSORED PROJECT TERMINATION SHEET

Date 2/14/83

Project Title: Solar Energy Meteorological Research & Training Site

Project No: E-16-C04 (subproject is G-35-C04)

Project Director: Dr. C. G. Justus

Sponsor: Department of Energy

Effective Termination Date: 12/31/82

Clearance of Accounting Charges: 12/31/82

Grant/Contract Closeout Actions Remaining:

- Final Invoice and Closing Documents
- Final Fiscal Report
- Final Report of Inventions
- Govt. Property Inventory & Related Certificate
- Classified Material Certificate
- Other \_\_\_\_\_

Assigned to: AE/GEO SCI (School/~~Laboratory~~)

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PROGRAM FOR SOLAR ENERGY METEOROLOGICAL RESEARCH  
AND TRAINING SITE (REGION 3)

Quarterly Technical Status and  
Contract Management Report

C. G. Justus, Principal Investigator

Georgia Institute of Technology  
Atlanta, GA 30332

February 1981

Report Period October 1, 1981 - December 31, 1981

PREPARED FOR THE UNITED STATES  
DEPARTMENT OF ENERGY

DIVISION OF DISTRIBUTED SOLAR TECHNOLOGY

UNDER GRANT FEF0G05-77-ET20153

Under Georgia Tech Project E-16-C04

## 1. PROJECT OBJECTIVES

This broad program of solar energy and meteorological monitoring, training, and research has the following main objectives for the proposed 5 years duration:

- (1) to provide for the Southeast Region (Region 3) a set of continuously monitored and quality controlled data on solar radiation and atmospheric phenomena related to solar energy collection, conversion, and storage, and to relate these to the extensive ongoing solar energy research and engineering projects carried out by Georgia Tech and in the Southeast Region.
- (2) by analysis of monitoring results at two sites (on campus, adjacent to the Georgia Tech thermal Test facility and off-campus adjacent to the Shenandoah Solar Total Energy Site), determine: a) optimum siting of solar radiation and meteorological monitoring instruments relative to solar energy systems to provide the most representative site data with the least influence from the solar collector systems, b) adequacy and representativeness for the Southeast Region of various methodologies for relating easily measured phenomena (minutes of sunshine, cloud cover, etc.) to engineering quality solar radiation data (direct, diffuse, and global insolation, etc.).
- (3) to establish and maintain a training program which will allow: a) undergraduate and graduate engineering students, through elective or minor courses, to become informed in the areas of meteorology and atmospheric science as they relate to solar and wind energy, b) graduate students in the atmospheric sciences to become informed of the specific requirements of monitoring, analysis, interpretation and presentation of meteorological information related to engineering aspects of solar and wind

energy, c) professionals in various fields, through short courses and seminars, to become familiar with the new and rapidly developing aspects of solar energy engineering and technology, especially the radiation monitoring and meteorological aspects of this field.

- (4) through cooperation in the 3/2 dual degree program, the National Consortium for Graduate Degrees for Minorities in Engineering and other academic programs, enhance the opportunities for minorities (especially Black American and Puerto Ricans) and women in the solar energy engineering and technology field.
- (5) instrumentation and monitoring techniques research and development to enhance the engineering applicability of the solar radiation and meteorological monitoring and to provide better instructional tools through low cost instrument systems for educational purposes.
- (6) to investigate, with the fixed site instruments and the portable monitoring units (PMU's), the influence of urban haze and aerosols as well as the high levels of natural turbidity which occur in parts of the Southeast region, and with the PMU's to sample the effects on solar radiation of a wide variety of geography (which spans coastal, piedmont plains, and mountainous within the Southeast region).

## 2. PROJECT PLAN

### A. Research Approach and Definition of Tasks

The proposed project plan is divided into three major tasks, each with several subtasks, as follows:

#### Task 1: Solar Radiation and Meteorological Monitoring Program

This task includes acquisition, initial calibration, and installation of the solar radiation and meteorological instrumentation at the on-campus (Solar Thermal Test Facility/Wind Turbine Test Facility) site and the off-campus (Shenandoah Georgia Solar Total Energy Project) site. Existing and new instrumentation at these sites will be combined and interfaced through data loggers and magnetic tape recording into a form which can be processed, summarized, and formatted by the main campus computer (CYBER 70/74 system). Annual calibration of the instrumentation, against national standards where appropriate, will be carried out, as well as more frequent field calibration of the radiation monitoring instruments. A carefully monitored program of daily instrument inspection and routine maintenance will also be carried out. The detailed outline of the various subtasks under Task 1 is as follows:

- a. Based on the proposed variables to be monitored, the Instrumentation Network Design will be laid out using equipment assigned by Georgia Tech for use on this program and additional units to be purchased with the sponsor's approval.
- b. Using the preliminary network design, the Selection, Order, and Delivery will be based on recommendations made at the preliminary review meeting of all of the principal investigators.
- c. Before an instrument or support unit is put into service, each piece of equipment will be examined and subjected to an Instrument Check and Certification for conformation to Georgia Tech and vendor specifications.

Instruments which fail to pass inspection will be returned to the vendor for replacement.

- d. The design, fabrication, and installation of the Auxiliary Hardware which will house and/or support the instrumentation will be according to recommendations in the above articles, of the respective vendors, and to experience gained through use of similar apparatus.
- e. Campus Site Modification and Preparation will be done as necessary to accomodate the new monitoring site and instrumentation.
- f. The Relocation of Existing Instruments will be performed expeditiously to prevent a loss of data in the present continuous monitoring system. Exposure and operation of the solar radiation and meteorological monitoring instruments will be in accordance with criteria and guidelines published by the WMO(1971) and the IGY (1958).
- g. The Instrumentation will be installed and calibrated after it is received and certified.
- h. Campus Site Monitoring for the total system is scheduled to begin during the last month of Year 1, but a continuous monitoring system will have been in use for the entire period.
- i. The Shenandoah Monitoring System will be used for the entire period after the "Sandia Solar Monitor System" is installed. This basic instrument package will be augmented by additional equipment. Data from the Shenandoah System will be logged on cassette tape. It will then be reformatted and merged with the campus site monitoring data on the CYBER system and put on magnetic tape.
- j. Analytical Software will be developed in a standard format which will be used for all research sites. This format was selected at the project directors meeting in Washington, D. C. Data will be taken for analysis

to the CYBER 70/74 computer for transfer to the standard format and storage in this format on magnetic tape, and for transmittal of the raw and summarized data to the National Climatic Center in Asheville.

- k. An Instrumentation Calibration by use of a set of special instruments or by techniques specified by the instrument vendor will be performed quarterly to verify instrument accuracy and to establish a permanent record of possible instrument degradation which would affect the acquired data.
- l. At the end of each phase of the program, the set of standards would be taken to the Solar Radiation Calibration Facility in Denver, Colorado for Certification of Standard Instruments.
- m. The Data Transfer to the National Climatic Center is scheduled to begin on a monthly basis at the end of Year 1 and would continue for the next 48 months. The data will also be stored at Georgia Tech.

#### Task 2: Solar Energy/Meteorology Training Program

This task involves development and implementation of on-campus, immediate area, and regional training. Existing graduate courses in general meteorology and boundary layer meteorology will be expanded by a new graduate course (open to seniors) in the area of meteorology for solar and wind energy. This course will include training in instrumentation, data acquisition, reduction and analysis. With the formation of an Atmospheric Sciences academic program anticipated to begin in September 1978, this academic curriculum will offer engineers and engineering technologists the opportunity to learn, as a minor or elective course basis, fundamentals of meteorology as it applies to solar energy engineering and technology. It will also allow meteorologists and atmospheric science students in the new program to interact with and learn about the engi-

neering problems and needs related to solar energy technology. This academic program and related short courses for professionals will be made available as appropriate through a unique instructional TV system to become operational at Georgia Tech in September 1978. A "traveling course" to be put on as a short course or a one quarter course at regional colleges will also be implemented. Initially this will be conducted by Georgia Tech personnel. Later, as arrangements are worked out and the local college has personnel trained to proctor or tutor the course, this will be carried via the TV system, either on a video cassette delivery basis, or if the system is developed, via a satellite TV link.

### Task 3: Instrumentation and Monitoring Techniques Research

Various research and development aspects related both to the monitoring and the training program, will be carried out under this task. The location of the two monitoring sites - one on-campus within about two miles from the heart of downtown Atlanta, one at the new town Shenandoah site, about 45 miles from Atlanta - will allow evaluation of urban/rural differences, especially related to urban haze and aerosols. The exposure of the instruments adjacent to the Solar Thermal Test Facility and Wind Turbine Test Facility at Georgia Tech will allow evaluation of potential effects on temperature, moisture, and air flow near such facilities. Hence optimum locations will be evaluated for instruments near solar energy facilities, to provide maximum degree of representativeness and minimum influence from the solar energy system on the meteorological measurements. Many models have been proposed in which various meteorological and simply measured radiation parameters (sunshine hours, temperature, cloud cover, solar declination, etc.) can be used to estimate engineering quality insolation (global and direct insolation, global on inclined surfaces, etc.). Some of these methods are those of Fritz (1957), Angstrom (1956), Black et al (1954), Glover and McCulloch (1958), Sabbagh et al (1977), Liu and Jordan (1960),

Whillier (1956) Bennett (1965), Swartman and Ogunladeo (1967), Reddy (1971a, 1971b), Norris (1966), Masson (1966), Atwater (1974), Lumb (1964), L'Vova (1972), Machta (1974), Paltridge (1974), Lin (1973), and Randall et al (1977). Through NOAA (Machta, private communication) a set of linear regression coefficients is being developed for the 26 rehabilitated solar radiation data stations. Using this model, the National Climatic Center will prepare, by November 1977, solar radiation estimates for 200 stations in the U.S. These data will be put on magnetic tape in SOLMET format. The data from the on-campus and off-campus monitoring sites as well as from the 5 Southeastern sites in the new 35 site NOAA network (Riches, 1975) will be used to study regional relationships between simply monitored parameters and solar radiation data for engineering purposes. Results of the contract study resulting from the recent RFP to Perform a Solar Radiation Data Forecast and Interpolation Analysis will also be applied in this study. Emphasis will be on study of the influence of turbidity (high in parts of the Southeast region), and regional geography (which spans coastal, piedmont plains, and mountain areas). During the second and subsequent years up to three low cost portable monitoring units will be designed and built. These units will be used in the training program as instructional systems for the traveling course to regional colleges. Data from these units will also be used in the analysis of methods to relate simple measured parameters to engineering quality insolation data for the region. Other instrument and monitoring techniques for which research and development projects are envisioned will include:

- a. an automatic filter changing wheel for the normal incidence pyrheliometer (to automatically switch on a 1/minute or less basis between clear, OG1, RG2, and RG8 filters),
- b. circumsolar radiation with the Lawrence Berkley Labs circumsolar telescope, currently on campus and projected to remain here throughout at least a portion of this project, and

- c. an automatic wide field of view camera system to provide a film record of cloud cover conditions.

### 3. ADMINISTRATIVE STATUS

No administrative changes have been made. The project team and organization is now as shown in Fig. 3.1.

### 4. PROGRESS TO DATE

#### Task 1: Solar Radiation and Meteorological Monitoring Program

- a. Completed in prior period. No modifications required.
- b. Completed in prior period. No modifications required.
- c. Completed in prior period.
- d. Completed in prior period.
- e. Completed in prior period. Campus site now in full operation.
- f. Completed in prior period.
- g. Another semi-annual calibration was carried out, referencing our active cavity radiometer.
- h. Campus site monitoring continues. Except for the usual maintenance, all instrumentation functioned properly throughout the quarter.
- i. The Shenendoah monitoring system continues in operation. Data reduction and quality control is current.
- j. Completed in prior period. Routine daily spot checks continue for the serial output from the on-campus site.
- k. See item g, above.
- 1. A PSP update calibration check was done by NOAA.

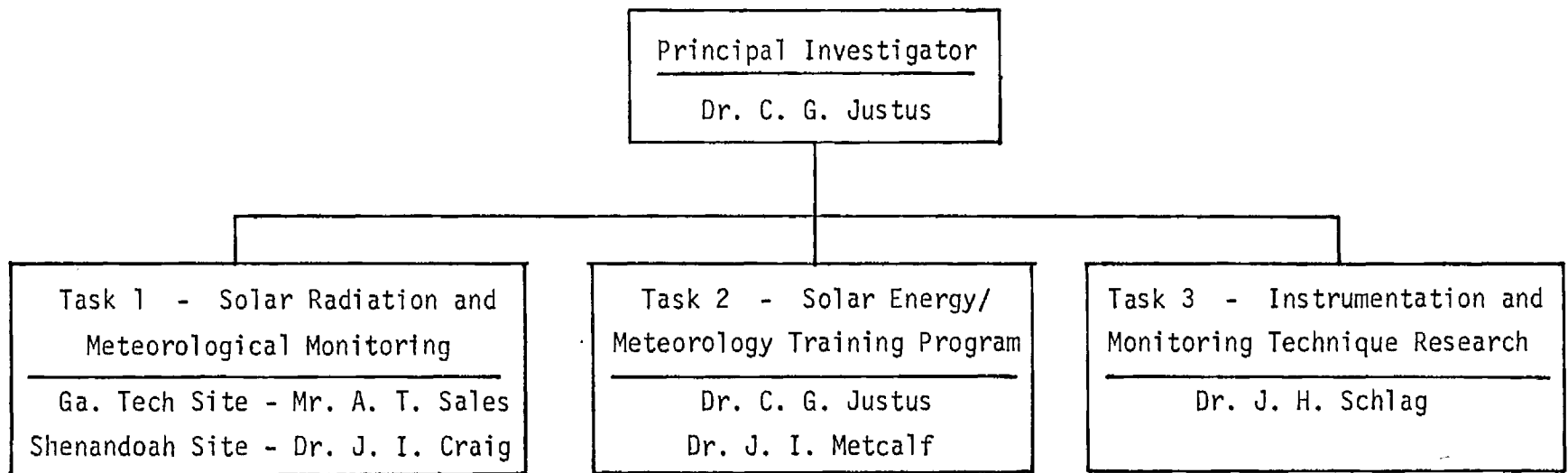


Figure 3.1 - Project Organization Chart

- m. Transfer of one year of Shenendoah data to NCC is complete. Transfer of data through August 1981 from the campus site to NCC is complete. Minute data for July 1980 through June 1981 to SERI is complete. Further data will be transferred as it is processed.

Task 2: Solar Energy/Meteorological Training Program

Activities under NSF minority graduate training program "Graduate Research Opportunities in Atmospheric and Terrestrial Sciences" continue.

Task 3: Instrumentation and Monitoring Techniques Research

Research continues on the all-sky camera, on diffuse shade band corrections, on urban/rural radiation from campus site and Shenendoah, on spectral ratio data, and turbidity and precipitable water effects. Figure 1 shows results of one year of data on the value of shortwave (0-630 nm) direct beam versus air mass and 500 nm turbidity. This plot should be compared to Figure 2, from Coulson's Solar and Terrestrial Radiation.

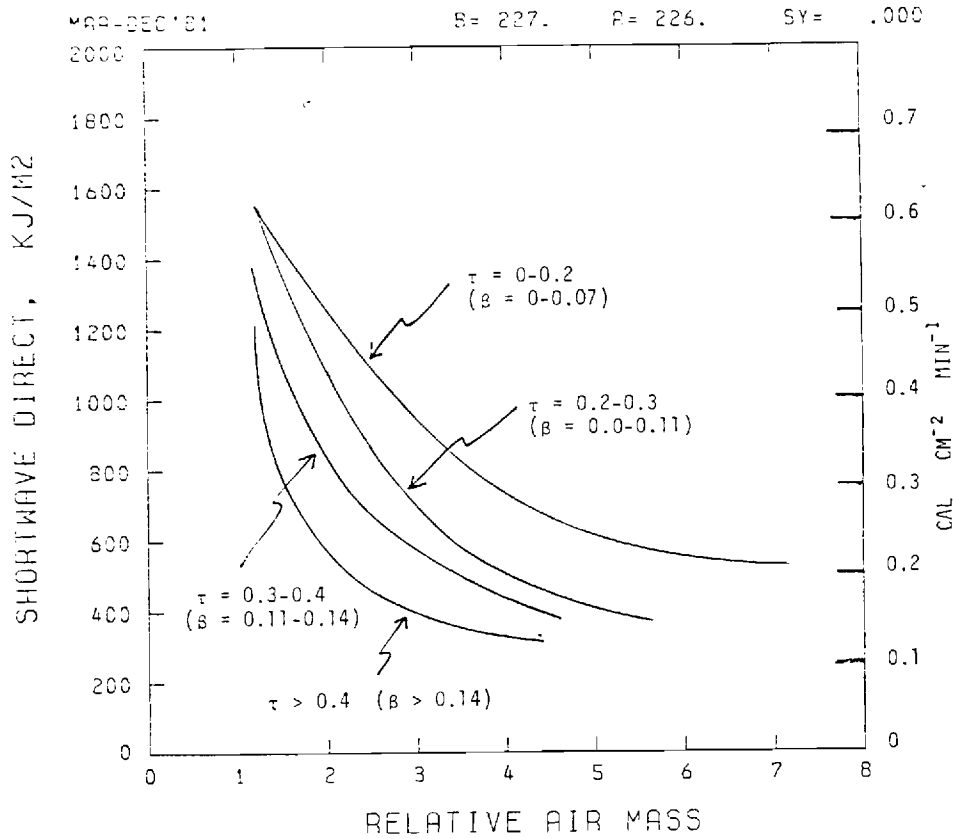


Fig. 1. Observed shortwave ( $\lambda < 630$  nm) flux versus air mass for various turbidities  $\tau$ .  $\beta$  = Angstrom turbidity coefficient based on exponent  $\alpha = 1.5$ .

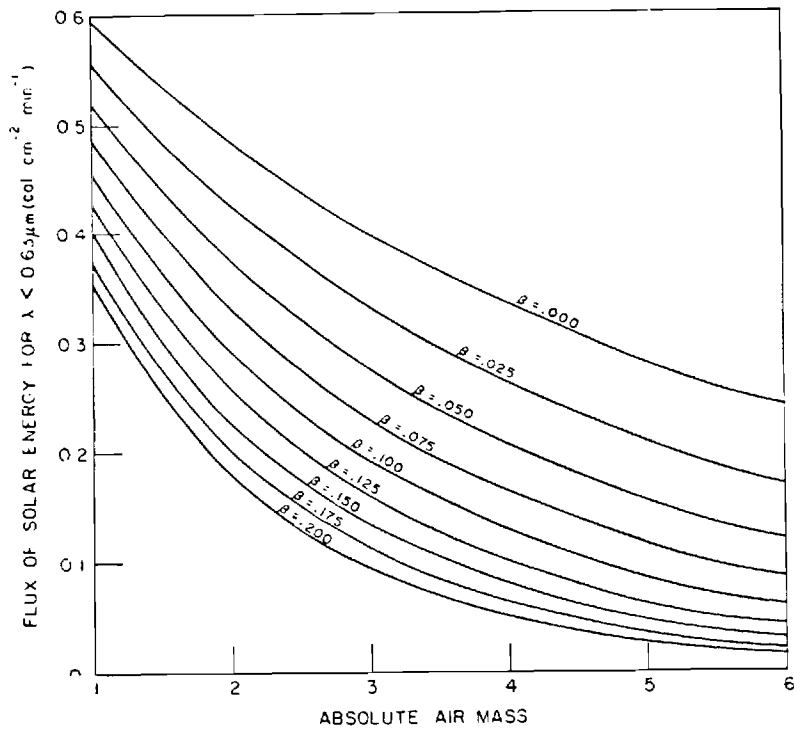


Fig. 2. The flux of solar energy at wavelengths  $\lambda < 0.63 \mu\text{m}$  as a function of air mass for various values of the Ångström turbidity coefficient.

## MILESTONES AND BUDGET

Expenditures in the current project year, through December 1981, total approximately \$23,000, which is only about 50% over the linear projection project expenditure plan. However, lower expenditures in later quarters should balance this out.

A detailed milestone and progress chart is attached.

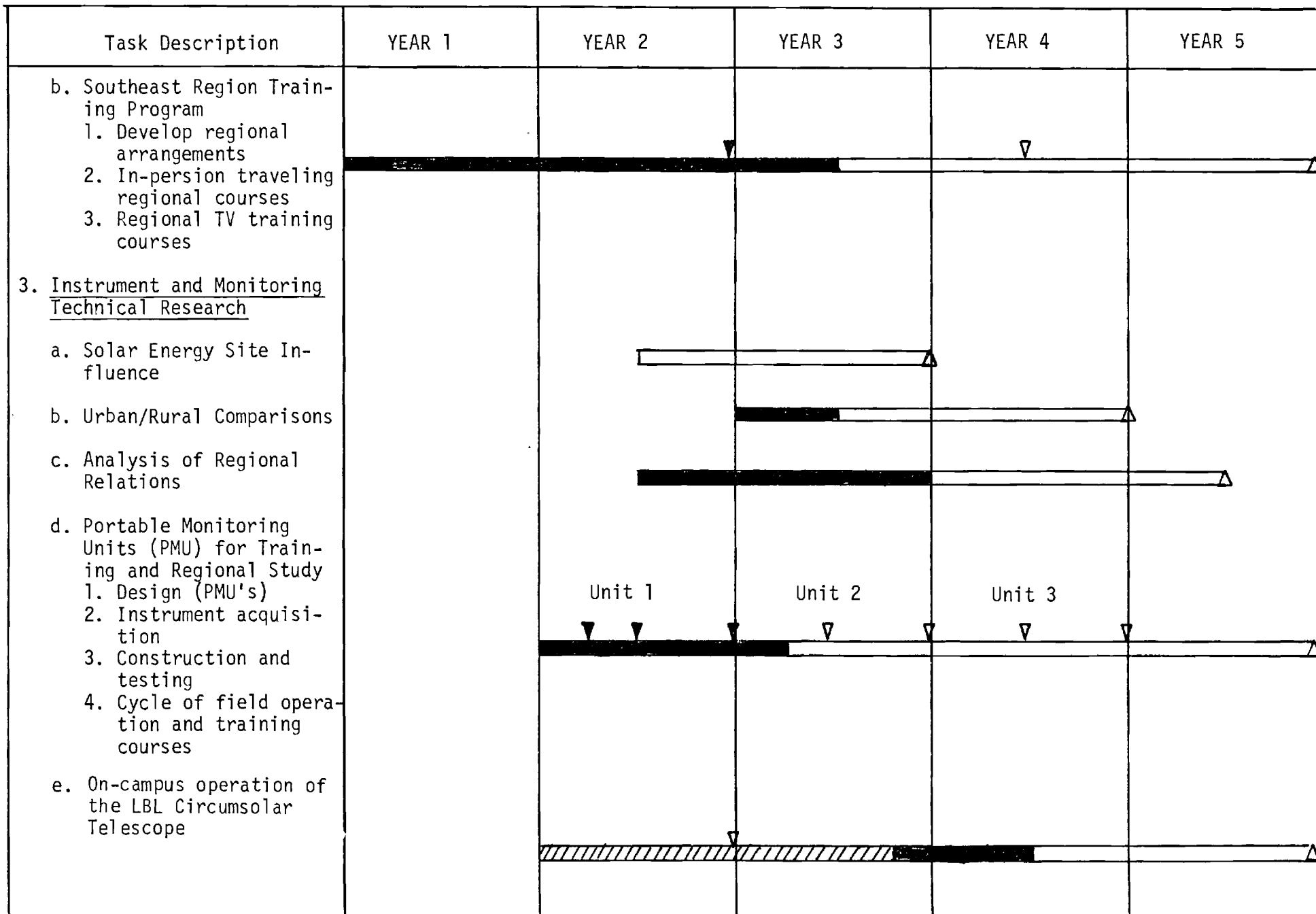
### Milestone Chart

Task Description	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
<p>1. <u>Solar Radiation &amp; Meteorological Monitoring</u></p> <p>a.</p> <p>    1. Instrument Network Design</p> <p>    2. Modifications as needed</p> <p>b. Selection, order, and delivery of instru.</p> <p>c. Instrument check and certification</p> <p>d. Auxiliary Hardware</p> <p>    1. Design</p> <p>    2. Mat. Acquisition</p> <p>    3. Fabrication</p> <p>    4. Installation</p> <p>e. Campus Site Mod. and preparation</p> <p>f. Relocation of Existing Instruments</p> <p>    1. Installation</p> <p>    2. Calibration</p> <p>    3. Temp. Data Acquisition</p> <p>g. Instrumentation</p> <p>    1. Installation</p> <p>    2. Electronic and Meteorol. Calibration</p>					

Milestone Chart (Cont'd.)

Task Description	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
h. Campus Site Monitor					
i. Shenandoah Monitor					
j. Analytical Software 1. Standardization 2. Development 3. Verification 4. Utilization 5. Modifications as needed					
k. Radiation Sensor Calibration					
l. Certification of Standard Radiation Instruments					
m. Data Transfer 1. National Climatic Center 2. Ga. Tech Files					
2. <u>Regional Training Program</u>					
a. On-campus and area program (including direct TV link) 1. Development 2. Operation					

Milestone Chart (Cont'd)



Milestone Chart (cont'd)

Task Description	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
f. Automatic sun photometer					
1. Research and development		▶			
2. Testing and operation		▶			▶
g. Automatic cloud cover camera					
1. Research and development		▶			
2. Testing and operation		▶			▶
4. <u>Reports and Review Meetings</u>					
Technical Status Reports	▼ ▼ ▼	▼ ▼ ▼	▼ ▼ ▼	▼ ▼ ▼	▼ ▼ ▼
Review Meeting	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Technical Progress Reports		▼	▼	▼	▼

ORO/5604-82/2

PROGRAM FOR SOLAR ENERGY METEOROLOGICAL RESEARCH  
AND TRAINING SITE (REGION 3)

Quarterly Technical Status and  
Contract Management Report

C. G. Justus, Principal Investigator  
Atlanta, GA 30332

April 1982

Report Period January 1, 1982 - March 31, 1982

PREPARED FOR THE UNITED STATES  
DEPARTMENT OF ENERGY

DIVISION OF DISTRIBUTED SOLAR TECHNOLOGY

UNDER GRANT FEF0G05-77-ET20153

Under Georgia Tech Project E-16-C04

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### Task 3: Instrumentation and Monitoring Techniques Research

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Whillier (1956) Bennett (1965), Swartman and Ogunladeo (1967), Reddy (1971a, 1971b), Norris (1966), Masson (1966), Atwater (1974), Lumb (1964), L'Vova (1972), Machta (1974), Paltridge (1974), Lin (1973), and Randall et al (1977). Through NOAA (Machta, private communication) a set of linear regression coefficients is being developed for the 26 rehabilitated solar radiation data stations. Using this model, the National Climatic Center will prepare, by November 1977, solar radiation estimates for 200 stations in the U.S. These data will be put on magnetic tape in SOLMET format. The data from the on-campus and off-campus monitoring sites as well as from the 5 Southeastern sites in the new 35 site NOAA network (Riches, 1975) will be used to study regional relationships between simply monitored parameters and solar radiation data for engineering purposes. Results of the contract study resulting from the recent RFP to Perform a Solar Radiation Data Forecast and Interpolation Analysis will also be applied in this study. Emphasis will be on study of the influence of turbidity (high in parts of the Southeast region), and regional geography (which spans coastal, piedmont plains, and mountain areas). During the second and subsequent years up to three low cost portable monitoring units will be designed and built. These units will be used in the training program as instructional systems for the traveling course to regional colleges. Data from these units will also be used in the analysis of methods to relate simple measured parameters to engineering quality insolation data for the region. Other instrument and monitoring techniques for which research and development projects are envisioned will include:

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- b. circumsolar radiation with the Lawrence Berkley Labs circumsolar telescope, currently on campus and projected to remain here throughout at least a portion of this project, and

- c. an automatic wide field of view camera system to provide a film record of cloud cover conditions.

### 3. ADMINISTRATIVE STATUS

No administrative changes have been made. The project team and organization is now as shown in Fig. 3.1.

### 4. PROGRESS TO DATE

#### Task 1: Solar Radiation and Meteorological Monitoring Program

- a. Completed in prior period. No modifications required.
- b. Completed in prior period. No modifications required.
- c. Completed in prior period.
- d. Completed in prior period.
- e. Completed in prior period. Campus site now in full operation.
- f. Completed in prior period.
- g. Quarterly calibration was carried out, referencing our active cavity radiometer.
- h. Campus site monitoring continues. Except for the usual maintenance, all instrumentation functioned properly throughout the quarter.
- i. The Shenendoah monitoring system continues in operation. Data reduction and quality control is current.
- j. Completed in prior period. Routine daily spot checks continue for the serial output from the on-campus site.
- k. See item g, above.
- l. No action during this quarter.

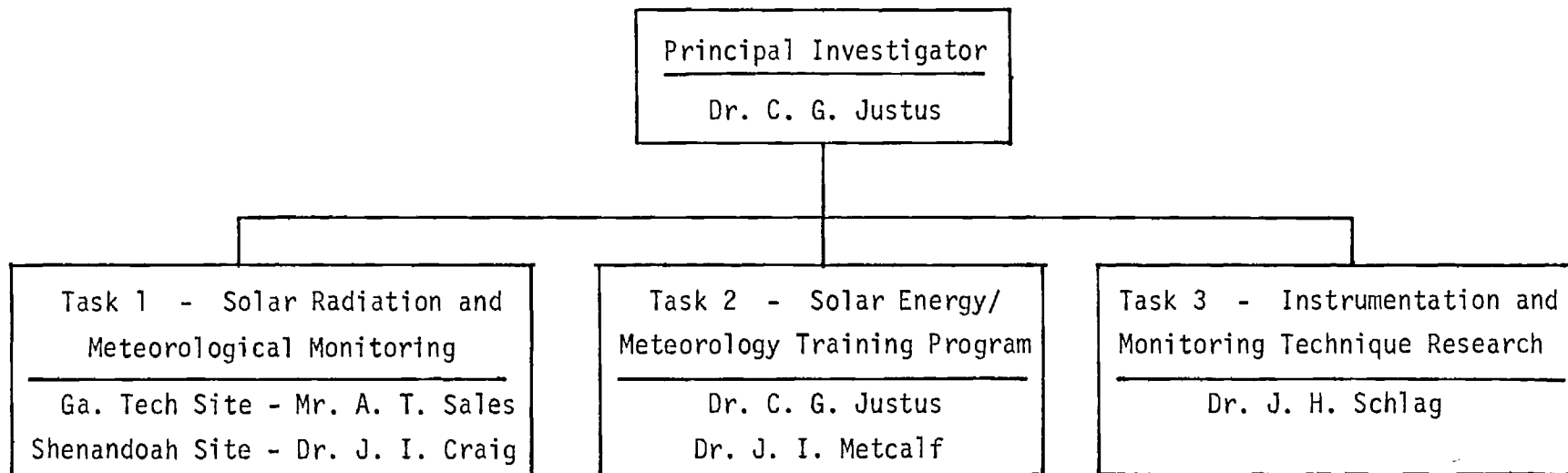


Figure 3.1 - Project Organization Chart

- m. Transfer of one year of Shenendoah data to NCC is complete. Transfer of data through August 1981 from the campus site to NCC is complete. Minute data for July 1980 through June 1981 to SERI is complete. Further data will be transferred as it is processed. Revised hourly and minute data for April - August 1981 will have to be processed due to changes in quality control.

Task 2: Solar Energy/Meteorological Training Program

Activities under NSF minority graduate training program "Graduate Research Opportunities in Atmospheric and Terrestrial Sciences" continue.

Task 3: Instrumentation and Monitoring Techniques Research

Research continues on the all-sky camera, on diffuse shade band corrections, on urban/rural radiation from campus site and Shenendoah, on spectral ratio data, and turbidity and precipitable water effects. Figure 1 shows results of one year of data (April '81 - March '82) on the intercomparison of shade band and shadow disc diffuse measurements. The solid curve is the standard Drummond correction, supplied by Eppley for their shade band. The observed required correction to make the shade band agree with the shadow disc is shown as the dotted curve. The required July correction is about 7% higher than expected, and the December correction is about 7% lower than expected. Other months fall between these limits.

APR '81 - MAR '82

RMS=.000

AV=.000

RE=100.0%

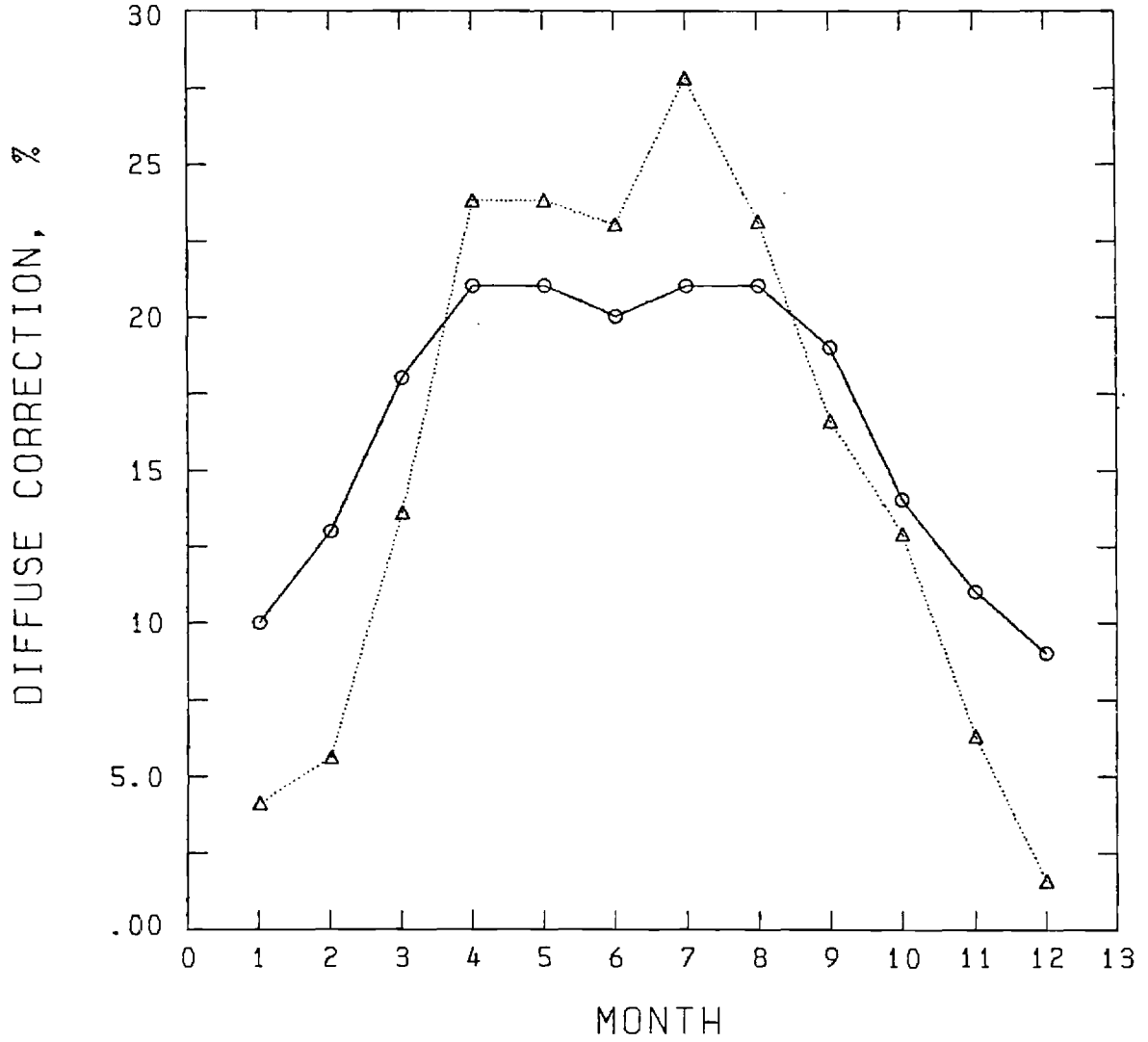


Figure 1.

## MILESTONES AND BUDGET

Expenditures in the current project year, through March 1982, total approximately \$42,000, which is only about \$2,000 over the linear projection project expenditure plan. However, lower expenditures in later quarters should balance this out. A no-cost extension through December 1982 has been requested and received.

A detailed milestone and progress chart is attached.

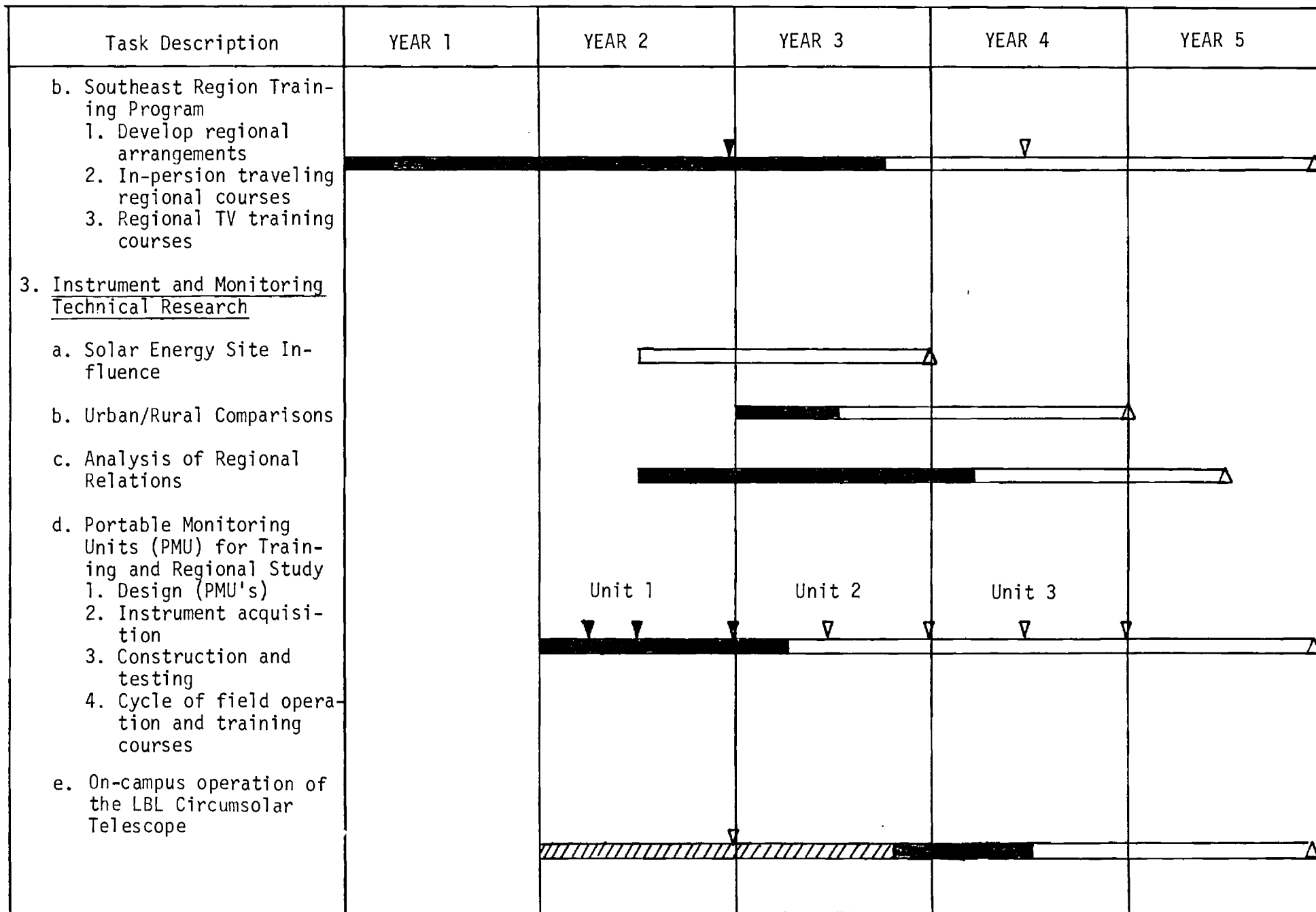
### Milestone Chart

Task Description	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
<p>1. <u>Solar Radiation &amp; Meteorological Monitoring</u></p> <p>a.</p> <p>    1. Instrument Network Design</p> <p>    2. Modifications as needed</p> <p>b. Selection, order, and delivery of instru.</p> <p>c. Instrument check and certification</p> <p>d. Auxiliary Hardware</p> <p>    1. Design</p> <p>    2. Mat. Acquisition</p> <p>    3. Fabrication</p> <p>    4. Installation</p> <p>e. Campus Site Mod. and preparation</p> <p>f. Relocation of Existing Instruments</p> <p>    1. Installation</p> <p>    2. Calibration</p> <p>    3. Temp. Data Acquisition</p> <p>g. Instrumentation</p> <p>    1. Installation</p> <p>    2. Electronic and Meteorol. Calibration</p>					

Milestone Chart (Cont'd.)

Task Description	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
h. Campus Site Monitor					
i. Shenandoah Monitor					
j. Analytical Software 1. Standardization 2. Development 3. Verification 4. Utilization 5. Modifications as needed					
k. Radiation Sensor Calibration					
l. Certification of Standard Radiation Instruments					
m. Data Transfer 1. National Climatic Center 2. Ga. Tech Files					
2. <u>Regional Training Program</u>					
a. On-campus and area program (including direct TV link) 1. Development 2. Operation					

Milestone Chart (Cont'd)



Milestone Chart (cont'd)

Task Description	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
f. Automatic sun photometer					
1. Research and development		▼			
2. Testing and operation		▼			
g. Automatic cloud cover camera					
1. Research and development		▼			
2. Testing and operation		▼			
4. <u>Reports and Review Meetings</u>					
Technical Status Reports	▼ ▼ ▼	▼ ▼ ▼	▼ ▼ ▼	▼ ▼ ▼	▼ ▼ ▼
Review Meeting	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Technical Progress Reports		▼	▼	▼	▼

E-16-C04

ORO/20153-82/1

FINAL REPORT  
Georgia Tech Project E-16-C04

## SOLAR ENERGY METEOROLOGICAL RESEARCH AND TRAINING SITE (REGION 3)

By

C. G. Justus, L. J. Lewis  
M. V. Paris and R. B. Benson

Prepared for

THE UNITED STATES DEPARTMENT OF ENERGY  
DIVISION OF DISTRIBUTED SOLAR TECHNOLOGY

Under

GRANT DE-FG05-77ET20153

Report Period: 1 October 1981 – 30 September 1982

SEPTEMBER 1982

**GEORGIA INSTITUTE OF TECHNOLOGY**  
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA  
SCHOOL OF GEOPHYSICAL SCIENCES  
ATLANTA, GEORGIA 30332

1982



PROGRAM  
FOR  
SOLAR ENERGY METEOROLOGICAL RESEARCH  
AND  
TRAINING SITE (REGION 3)

Final Report

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## ABSTRACT

Data and analysis are presented for the period of operation April 1981 - June 1982 for the Solar Energy Meteorological Research and Training Site (SEMRATS) program at the Atlanta Georgia Tech site. Hourly, daily, and monthly values are tabulated for direct, direct-spectral (RG630), global, global-spectral (RG630), diffuse, latitude-tilted global, ultraviolet radiation, and available sunshine, for this period. Monthly averages of other meteorological and radiation parameters are also tabulated for the entire operational period April 1979 - June 1982 and compared with results for the nearby Atlanta Airport National Weather Service station.

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## 1. BACKGROUND

Eight regional university Solar Energy Meteorological Research and Training Site (SEMRATS) program sites have been established around the United States. The Georgia Institute of Technology is the SEMRATS center for the Southeastern Region, including Florida, Georgia, Alabama, Mississippi, Tennessee, South Carolina, North Carolina, Virginia, Kentucky, West Virginia, Maryland, the District of Columbia, and Delaware. Permanent monitoring sites on the Georgia Tech campus and at Shenendoah, about 60 km (40 miles) southwest of the campus site, continuously monitor and record global, direct, diffuse, global tilted, UV, IR, and other spectral radiation parameters. A careful program of instrument and electronic calibration and quality control will insure the accuracy of these recorded data. Programs of training for students at Georgia Tech and for professionals in the field are also carried out in the area of solar energy resource assessment.

Significant earlier progress has been reported in the 1977-78 annual report (ORO/5604-78/4), the 1979-80 annual report (ORO/20153-80/1), and the 1980-81 annual report (ORO/20153-82/2), which gives a complete site and instrumentation description for the Georgia Tech and Shenendoah sites, as well as a description of the data processing and quality control procedures used. This report also gives additional site description.

An atlas of the solar radiation resource for the southeast region has been prepared as the 1978-79 annual report (ORO/5604-80/1).

## 2. DESCRIPTION OF DATA

The measurements being taken and instruments used are summarized in Table 1. Data are logged by an Acurex data logger and Cypher tape deck, then processed on a Data General Eclipse S-130 computer system. A combination of automatic and manual editing is used in the quality control of the data, with about 3-5 person-days per month being required in the manual editing process. At the Shenendoah site a similar but less complete set of instrumentation is used. Data at that site are logged on a EG&G data logger and tape cassette recorder, with a similar quality control procedure.

Hourly averages from both the Georgia Tech campus site and the Shenendoah site are available in Research Cooperator Format through the National Climatic Center in Asheville, S.C., or through the Solar Energy Research Institute (SERI) in Golden, Colorado. The one-minute data from the Georgia Tech site for July 1980 through June 1981 are archived at SERI. Hourly values and daily and monthly totals for selected radiation parameters are also given in this report for the period April 1981 through June 1982 for the Georgia Tech campus site. Similar data for the earlier operation period were given in reports ORO/20153-80/1, and ORO/20153-82/1.

### 3. DATA RESULTS

#### Introduction

This chapter presents solar radiation data on an hourly and daily basis as measured at the Southeast (Region 3) Solar Energy Meteorological Research and Training Site. Questions regarding these data may be addressed to Dr. C. G. Justus, School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, Georgia 30332.

The solar radiation and meteorological instruments are located on the roof of the five-story Civil Engineering Building on the Georgia Tech campus. This site is about 3 km (2 miles) from the heart of downtown Atlanta. Because of the height of the building site, however, there is only minimal horizon interference. Panoramic site views were shown in ORO/20153-80/1 (Figures 5 and 6). The Civil Engineering Building is at a sea level elevation of 292.0 m. The solar instruments are at an elevation above ground of 34.8 m, or a sea level elevation of 326.8 m. The station is located at 33°46'37" N latitude and 84°23'54" W longitude.

#### Instrumentation and Operation

Table 1 gives a complete list of all the instrumentation operated at the site. Careful site maintenance schedules are conducted which include cleaning of the instrument domes or glass covers, check of pyranometer desiccant and level, check of pyrhelimeter tracking, and output and consistency checks. Calibrations of pyrhelimeters are maintained by direct comparison against a self-calibrating TMI active cavity radiometer, which measures on the Absolute Scale, and has participated in two active cavity radiometer national intercomparisons. Calibrations of pyranometers are

ATLANTA, GEORGIA TECH SITE  
(C.E. BUILDING ROOF ON GA. TECH CAMPUS)  
RESEARCH COOPERATOR DATA DESCRIPTION

Latitude = 33° 46' 37" N  
Longitude = 84° 23' 54" W  
Time Zone = Eastern (5)

Element Code	Elevation		Orientation		Spectral Band $\mu$		Description	Units
	MSL, m	AGL, m	Azimuth	Tilt	Lower	Upper		
1000	326.8	34.8	0	0	0.29	2.80	Global Horizontal, Eppley PSP	$\text{kJ/m}^2$
1001	326.8	34.8	0	0	0.29	2.80	Global Horizontal, Spectrolab SR 75	$\text{kJ/m}^2$
1002	326.8	34.8	0	0	0.38	1.20	Global Horizontal, LiCor Lambda	$\text{kJ/m}^2$
1003(1)	326.8	34.8	0	0	0.38	1.20	Global Horizontal, Dodge Products Solar Cell	$\text{kJ/m}^2$
1460	326.8	34.8	180	34	0.29	2.80	Global Latitude Tilted, PSP w/artificial horizon	$\text{kJ/m}^2$
1461(2)	326.8	34.8	180	34	0.29	2.80	Global Latitude Tilted, Lambda w/artificial horizon	$\text{kJ/m}^2$
2010	326.8	34.8	-	-	0.29	2.80	Direct Normal, Eppley NIP	$\text{kJ/m}^2$
2011	326.8	34.8	-	-	0.29	2.80	Direct Normal, Eppley NIP (redundant)	$\text{kJ/m}^2$
2012(2)	326.8	34.8	-	-	0.38	1.20	Direct Normal, LiCor Lambda w/colimator	$\text{kJ/m}^2$
3000	326.8	34.8	0	0	0.29	2.80	Diffuse, PSP and tracking disk	$\text{kJ/m}^2$
3001(3)	326.8	34.8	0	0	0.29	2.80	Diffuse, PSP and tracking disk	$\text{kJ/m}^2$
5000	326.8	34.8	0	0	0.30	0.39	UV, Eppley TUVR	$\text{kJ/m}^2$
6000	326.8	34.8	0	0	2.80	60.0	IR from Total Incoming (Funk) minus Global (PSP)	$\text{kJ/m}^2$
6001(4)	326.8	34.8	0	0	3.5	50.0	IR from Eppley PIR	$\text{kJ/m}^2$
7000	326.8	34.8	0	0	0.63	2.80	Global Spectral, PSP and RG2 filter	$\text{kJ/m}^2$
7010	326.8	34.8	0	0	0.63	2.80	Direct Normal Spectral, NIP and RG2 filter	$\text{kJ/m}^2$
9000(5)	326.8	34.8	-	-	-	-	% Possible Sunshine, Campbell Stokes	%
9001(5)	326.8	34.8	-	-	-	-	% Possible Sunshine, NIP w/200 $\text{W/m}^2$ threshold	%
9150(6)	326.8	34.8	-	-	-	-	Rainfall	mm
9200	332.9	40.9	-	-	-	-	Wind Direction, lower level	deg
9201	343.3	51.3	-	-	-	-	Wind Direction, upper level	deg
9210	332.9	40.9	-	-	-	-	Wind Speed, lower level	m/s
9211	343.3	51.3	-	-	-	-	Wind Speed, upper level	m/s
9300	329.8	37.8	-	-	-	-	Dry Bulb Temperature, lower level	$^{\circ}\text{C}$
9301	343.0	51.0	-	-	-	-	Dry Bulb Temperature, upper level	$^{\circ}\text{C}$
9320	329.8	37.8	-	-	-	-	Dew Point Temperature, lower level	$^{\circ}\text{C}$
9321	343.0	51.0	-	-	-	-	Dew Point Temperature, upper level	$^{\circ}\text{C}$
9400	326.8	34.8	-	-	-	-	Station Pressure	kPa

(1) Not available after 10/26/79; (2) Available after 2/1/80; (3) Available after 1/10/80; (4) Available after 4/14/80;  
(5) Available only in hourly RCF; (6) Minute rainfall is cumulative from beginning of hour.

maintained by comparison against a secondary standard calibrated at least yearly at the NOAA Boulder Calibration Lab, and by sun shade tests using the TMI activity cavity radiometer at Georgia Tech.

After data are measured as one minute averages, they are subjected to an array of automatic quality control checks and then summed into hourly values which are given further manual and automatic checks. The direct, global and diffuse instruments each have redundant instruments which serve as quality control checks and tests of the basic instrument accuracy. Accuracy of the hourly totals ranges from about 1% for high readings ( $\sim 300 \text{kJ/m}^2$ ) to about 10% for low readings ( $\sim 30 \text{kJ/m}^2$ ) and is on the order of  $30 \text{kJ/m}^2$  or less absolute. Details of basic instrument accuracy are described in ORO/20153-80/1.

#### Data Description

Tables 2 through 5 give summaries of monthly average solar radiation and meteorological parameters measured at the Atlanta, Georgia Tech site and at the nearby Atlanta airport (distance about 13 km, 8 miles). For the Atlanta, Georgia site data, temperature and dewpoint are averaged from the one-minute continuous data measurements; wind speed is the arithmetic average, while wind direction is the vector resultant; rainfall is based on hourly accumulations in the weighing rain gauge; available sunshine is determined by integrating the period when the direct beam pyrheliometer measurement exceeds  $200 \text{W/m}^2$ ; and all solar radiation values are integrated from the one-minute average continuous data measurements.

Hourly and daily data for April 1981 through June 1982 are given in Tables 6 through 140. These data are also available from the National Climatic Center of SERI in Research Cooperator Format. The following descriptions of procedures for handling missing data and for calculating daily and

monthly totals apply only to the tabulated data given in this Appendix.

No modeled or estimated values have been inserted on the Research Cooperator Data Format tape data.

Missing and Estimated Data: Hourly data values which are unavailable (no data recorded during the hour) are identified as 9999 and flagged with an asterisk (\*). Data which are judged incorrect, or which have fewer than 54 valid minute values are also flagged with an asterisk; the value is retained in the table but is not used in the totals or averages. For isolated (single) missing hourly values, an estimated hourly value is interpolated linearly between preceding and subsequent valid hourly values and labelled with a dollar sign (\$). For redundant instruments (direct, global, diffuse, and available sunshine) if an hourly value is missing for the primary instrument but available from the secondary instrument, the secondary value is substituted. Hourly values labelled with a percent sign (%) were judged to be questionable by the quality control procedures, but are retained in the sums for purposed of daily or monthly averages.

Daily Totals: Daily totals are given in the right hand column, along with the number of values in the total. If the daily total contains 24 good (or interpolated) hourly values, it is not flagged. If the daily totals contain 22 or 23 good (or interpolated) values, an estimated daily total is derived based on a normalization, discussed below, and flagged with a dollar sign. If less than 22 good values occur during a day, the daily total is flagged with an asterisk and the value is set to 9999.

Monthly Averages: Monthly averages by hour are also tabulated, at the bottom of each table, along with the number of valid points in this average.

If the monthly average by hour contains fewer data than the number of days in the month, it is flagged with a dollar sign. A monthly average daily total, along with the number of valid (or interpolated) hours in this total is given at the lower right of each table. A consistency check is applied to the monthly average daily total to insure that the average over the days is within 3% of the sum over the monthly average hourly values. If this test is violated, values of the alternate average are given as a footnote in the table.

Normalized Data: If a daily value contains 22 or 23 hourly radiation values, a normalized daily total is computed by the following procedure:

$$\text{Normalized Daily Total} = \left[ \frac{\Sigma (\text{available hourly values})}{\Sigma (\text{same hours of monthly average hourly values})} \right] \times (\text{Monthly Average Daily Totals})$$

where the Monthly Average Daily Total is evaluated as the total of the Monthly Average Hourly Values. See note above on the 3% consistency check applied to the Monthly Average Daily Totals computed by summing the daily total values.

## Conversion Factors

Temperature

$$^{\circ}\text{F} = 32 + 1.8^{\circ}\text{C}$$

Degree Days

$$^{\circ}\text{F} = 1.8^{\circ}\text{C Degree Days}$$

(base  $18.3^{\circ}\text{C} = 65^{\circ}\text{F}$ )

Wind Speed

$$1 \text{ mph} = 0.447\text{m/s}$$

Wind Direction

$$360^{\circ} = 0^{\circ} = \text{Wind from North}$$

$$90^{\circ} = \text{Wind from East}$$

$$180^{\circ} = \text{Wind from South}$$

$$270^{\circ} = \text{Wind from West}$$

Precipitation

$$1 \text{ inch} = 2.54 \text{ cm}$$

Solar Radiation

$$1 \text{ BTU/ft}^2 = 11.4\text{kJ/m}^2$$

$$1 \text{ Langly} = 41.8\text{kJ/m}^2$$

$$1 \text{ KWhr/m}^2 = 3.6\text{MJ/m}^2 = 3600\text{kJ/m}^2$$

Table 2: 1979 Monthly Average Data

Lat 33.75 N Lon 84.40 W		1979 ATLANTA, GEORGIA TECH AND ATLANTA AIRPORT (NWS) DATA											
Atlanta, Georgia Tech		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)		-	-	-	16.7	20.6	23.4	25.3	25.8	21.5	16.6	12.9	8.5
Heating Degree (C) Days		-	-	-	57	12	0	0	0	5	71	160	304
Cooling Degree (C) Days		-	-	-	14	80	152	216	232	101	18	3	0
Dewpoint Temp. (Deg. C)		-	-	-	5.9	11.0	13.0	17.2	17.4	14.6	9.0	4.9	1.4
Avg. Wind Speed (m/s)		-	-	-	3.8	3.2	3.0	3.1	2.4	3.5	3.3	3.3	3.7
Resultant Wind Direction (Deg)		-	-	-	356	164	20	245	310	51	236	286	307
Precipitation (cm)		-	-	-	25.54	7.56	1.89	8.56	12.27	13.45	6.78	13.57	1.83
Direct Normal (MJ/m2.day)		-	-	-	16.1	12.7	14.8	10.6	13.5	8.1	20.4	15.7	13.8
Direct RG630 (MJ/m2.day)		-	-	-	10.1	8.0	8.9	7.3	9.8	5.8	14.0	10.9	9.4
Global Horizontal (MJ/m2.day)		-	-	-	18.0	18.3	21.2	17.4	19.1	12.3	14.7	9.9	8.2
Global RG630 (MJ/m2.day)		-	-	-	10.5	10.9	12.7	9.9	11.1	7.0	8.7	5.8	4.9
Diffuse Horizontal (MJ/m2.day)		-	-	-	6.1	9.2	11.0	9.9	10.2	7.3	4.0	3.2	2.9
Lat. Tilted Global (MJ/m2.day)		-	-	-	18.1	16.7	18.5	15.5	18.5	12.9	19.7	15.1	13.5
Infrared [3-60 μ] (MJ/m2.day)		-	-	-	-	-	-	-	-	-	-	27.9	26.5
UV [0.30-0.39 μ] (MJ/m2.day)		-	-	-	0.94	0.97	1.11	0.92	0.94	0.65	0.71	0.48	0.41
Available Sunshine (%)		-	-	-	51	40	48	36	52	32	67	55	50
ETR Horizontal (MJ/m2.day)		-	-	-	36.2	40.0	41.4	40.7	37.7	32.6	26.1	20.5	17.7
Lat 33.65 N Lon 84.42 W													
Atlanta Airport (NWS)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)		2.9	5.4	13.4	17.1	21.2	24.3	26.0	26.7	22.6	16.9	12.4	8.2
Heating Degree (C) Days		474	359	155	54	9	0	0	0	3	68	178	311
Cooling Degree (C) Days		0	0	7	18	101	182	242	264	135	27	3	0
Dewpoint Temp. (Deg. C)		-3.3	-0.6	4.4	8.3	14.4	16.1	20.6	20.0	18.3	10.6	6.1	0.0
Avg. Wind Speed (m/s)		5.1	4.6	4.5	4.5	3.8	3.9	4.1	3.6	4.9	4.1	4.4	4.7
Resultant Wind Direction (Deg)		320	320	240	310	220	10	170	340	70	250	280	320
Precipitation (cm)		12.78	14.50	8.10	30.12	6.17	3.71	9.19	18.49	15.44	5.51	13.18	1.75
Available Sunshine (%)		44	44	62	57	53	66	51	88	42	74	62	59
Sky Cover [sr-ss] (10ths)		7.7	7.6	6.5	6.3	6.8	6.1	7.7	5.3	7.3	4.1	5.1	5.9

Table 3: 1980 Monthly Average Data

Lat 33.75 N Lon 83.40 W		1980 ATLANTA, GEORGIA TECH AND ATLANTA AIRPORT (NWS) DATA											
Atlanta, Georgia Tech		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)		7.6	5.8	11.1	16.4	21.2	25.0	28.4	27.3	24.5	15.2	11.6	7.3
Heating Degree (C) Days		332	364	225	76	4	0	0	0	12	107	202	342
Cooling Degree (C) Days		0	1	2	19	95	200	312	278	206	14	0	0
Dewpoint Temp. (Deg. C)		1.9	-3.8	2.9	7.2	14.2	17.8	20.9	19.7	17.6	7.9	3.0	-2.4
Avg. Wind Speed (m/s)		3.7	3.8	4.8	4.2	3.2	3.1	2.8	2.4	2.6	3.1	3.5	3.4
Resultant Wind Direction (Deg)		321	299	343	247	227	252	244	212	56	314	313	289
Precipitation (cm)		18.12	8.89	31.83	5.71	17.56	6.66	2.74	0.86	12.55	4.45	4.17	2.01
Direct Normal (MJ/m2.day)		7.4	16.2	13.2	17.3	12.2	16.3	17.7	13.8	13.0	18.0	15.3	14.4
Direct RG630 (MJ/m2.day)		4.9	11.0	8.8	11.7	8.6	11.4	12.4	10.2	9.3	11.8	10.1	10.2
Global Horizontal (MJ/m2.day)		6.1	12.3	13.1	18.9	18.8	21.9	23.3	19.3	15.4	14.0	10.0	8.9
Global RG630 (MJ/m2.day)		3.6	7.4	8.2	10.9	10.7	12.7	13.7	11.5	9.2	8.6	6.4	5.7
Diffuse Horizontal (MJ/m2.day)		3.2	4.1	5.3	7.4	10.1	9.9	10.5	9.5	7.5	4.1	3.0	2.8
Lat. Tilted Global (MJ/m2.day)		8.8	16.9	15.2	18.9	17.0	18.9	20.6	18.8	16.8	18.5	15.7	14.6
Infrared [3-60 μ] (MJ/m2.day)		27.8	25.9	-	-	-	33.8	35.8	35.7	35.4	29.8	28.7	27.8
UV [0.30-0.39 μ] (MJ/m2.day)		0.33	0.59	0.65	0.89	0.88	1.06	1.13	0.96	0.80	0.71	0.49	0.42
Available Sunshine (%)		26	54	41	53	44	50	61	55	49	60	56	55
ETR Horizontal (MJ/m2.day)		19.0	23.9	30.5	36.3	40.0	41.4	40.6	37.5	32.4	25.9	20.3	17.6
Lat 33.65 N Lon 84.42 W													
Atlanta Airport (NWS)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)		7.2	5.5	11.2	17.0	22.2	26.2	29.5	28.8	26.1	16.4	11.1	7.2
Heating Degree (C) Days		342	371	222	63	2	0	0	0	10	86	217	343
Cooling Degree (C) Days		0	2	2	27	126	238	351	327	244	28	0	0
Dewpoint Temp. (Deg. C)		2.8	-2.8	3.9	8.3	15.0	18.8	21.7	21.0	20.0	10.6	3.3	-1.7
Avg. Wind Speed (m/s)		4.8	4.7	5.6	4.8	4.0	4.0	3.6	3.5	3.6	4.1	4.6	4.3
Resultant Wind Direction (Deg)		340	310	350	260	250	270	270	250	70	320	340	310
Precipitation (cm)		14.45	6.83	29.62	4.78	21.26	11.40	1.93	4.04	12.12	4.09	5.44	3.28
Available Sunshine (%)		35	66	52	64	80	63	83	76	66	70	60	65
Sky Cover [sr-ss] (10ths)		8.1	5.7	7.5	5.5	6.5	5.3	4.1	4.7	5.9	4.9	5.4	5.2

Table 4: 1981 Monthly Average Data

Lat 33.75 N Lon 84.40 W		1981 ATLANTA, GEORGIA TECH AND ATLANTA AIRPORT (NWS) DATA											
Atlanta, Georgia Tech		JAN	FEB	MAR	APR	MAY	JUN*	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)		4.4	8.5	11.3	19.8	19.5	25.7	27.1	24.6	21.8	15.5	12.3	4.4
Heating Degree (C) Days		432	274	221	20	30	0	0	0	12	105	182	446
Cooling Degree (C) Days		0	0	4	65	60	221	272	194	120	18	1	0
Dewpoint Temp. (Deg. C)		-5.8	-1.4	-1.0	9.9	11.1	19.6	20.3	19.4	14.5	8.2	3.9	-2.3
Avg. Wind Speed (m/s)		4.2	4.6	4.5	4.0	3.4	3.3	3.1	2.8	2.6	3.8	3.9	4.6
Resultant Wind Direction (Deg)		299	307	288	218	244	219	295	102	299	44	302	327
Precipitation (cm)		1.19	17.33	5.45	5.66	11.13	6.13	6.01	3.67	3.84	6.38	4.03	1.43
Direct Normal (MJ/m2.day)		19.1	14.7	20.2	17.2	17.0	15.2	12.6	7.7	17.5	15.2	14.4	11.5
Direct RG630 (MJ/m2.day)		13.5	10.2	13.6	11.5	11.5	10.3	8.8	5.0	11.8	10.1	9.7	7.6
Global Horizontal (MJ/m2.day)		10.8	11.7	17.4	19.9	20.8	23.3	20.3	15.9	18.4	13.2	10.2	7.0
Global RG630 (MJ/m2.day)		7.0	7.5	10.8	12.0	12.4	13.1	11.9	9.3	10.9	7.9	6.3	4.5
Diffuse Horizontal (MJ/m2.day)		2.7	4.2	5.3	8.5	8.8	11.1	11.3	10.8	7.2	4.6	3.5	2.4
Lat. Tilted Global (MJ/m2.day)		17.8	16.0	20.5	19.7	18.3	19.0	17.7	14.8	20.7	16.9	15.3	11.6
Infrared [3-60 μ] (MJ/m2.day)		25.5	28.2	28.0	32.0	31.6	34.9	35.2	35.3	32.6	29.9	28.9	26.4
UV [0.30-0.39 μ] (MJ/m2.day)		0.48	0.56	0.81	0.98	1.06	1.15	0.98	0.82	0.93	0.70	0.51	0.36
Available Sunshine (%)		66	51	63	56	52	57	47	30	63	52	54	42
ETR Horizontal (MJ/m2.day)		19.0	23.8	30.3	36.2	40.0	41.4	40.7	37.7	32.6	26.1	20.5	17.7

(\* based on 23 days of data )

Lat 33.65 N Lon 84.42 W		Atlanta Airport (NWS)											
Atlanta Airport (NWS)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)		4.2	9.2	11.0	19.8	19.8	27.4	27.9	25.4	22.4	15.6	12.5	3.9
Heating Degree (C) Days		437	279	228	20	24	0	0	0	9	99	174	442
Cooling Degree (C) Days		0	0	5	69	73	274	300	221	137	20	2	0
Dewpoint Temp. (Deg. C)		-8.1	-1.1	-0.6	10.6	11.1	18.9	20.6	19.4	16.1	9.4	4.4	-2.2
Avg. Wind Speed (m/s)		5.1	5.2	5.4	4.7	4.6	4.1	4.0	3.8	3.3	4.5	4.2	5.1
Resultant Wind Direction (Deg)		300	340	300	230	260	260	300	110	310	50	320	330
Precipitation (cm)		2.13	6.81	9.98	5.23	9.89	6.83	3.96	7.01	13.39	7.65	4.70	15.88
Available Sunshine (%)		78	62	74	69	68	76	65	49	77	65	70	50
Sky Cover (ar-se) (10ths)		4.2	6.8	5.4	6.5	6.5	4.9	5.9	7.6	4.2	5.9	5.9	6.2

Table 5: 1982 Monthly Average Data

Lat 33.75 N Lon 84.40 W Atlanta, Georgia Tech	1982 ATLANTA, GEORGIA TECH AND ATLANTA AIRPORT (HWS) DATA											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)	4.0	8.1	13.8	14.9	22.7	24.3						
Heating Degree (C) Days	450	285	154	109	2	0						
Cooling Degree (C) Days	0	0	15	5	138	156						
Dewpoint Temp. (Deg. C)	-1.8	2.1	5.4	3.6	13.4	17.4						
Avg. Wind Speed (m/s)	5.0	4.3	4.1	4.2	2.6	3.1						
Resultant Wind Direction (Deg)	274	338	239	348	209	268						
Precipitation (cm)	13.85	16.51	8.17	17.00	4.74	14.21						
Direct Normal (MJ/m2.day)	9.7	11.3	11.0	14.0	15.9	17.2						
Direct RG630 (MJ/m2.day)	6.8	8.0	7.5	9.0	11.1	11.5						
Global Horizontal (MJ/m2.day)	7.4	9.7	13.9	17.0	21.6	22.6						
Global RG630 (MJ/m2.day)	4.7	6.0	8.4	10.1	12.8	13.2						
Diffuse Horizontal (MJ/m2.day)	3.2	3.6	7.0	7.2	10.5	10.3						
Lat. Tilted Global (MJ/m2.day)	11.2	13.1	15.3	17.1	19.5	19.5						
Infrared (3-60 u) (MJ/m2.day)	26.7	28.4	30.6	30.3	34.0	34.7						
UV (0.30-0.39 u) (MJ/m2.day)	0.40	0.51	0.76	0.93	1.14	1.21						
Available Sunshine (%)	37	39	39	43	56	57						
ETR Horizontal (MJ/m2.day)	19.0	23.8	30.3	36.2	40.0	41.4						
Lat 33.65 N Lon 84.42 W Atlanta Airport (HWS)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature (Deg. C)	3.6	8.6	13.6	14.7	22.5	24.6						
Heating Degree (C) Days	455	270	157	113	1	0						
Cooling Degree (C) Days	3	0	14	7	135	192						
Dewpoint Temp. (Deg. C)	-1.7	1.7	5.6	5.6	13.9	17.2						
Avg. Wind Speed (m/s)	5.1	4.6	4.6	4.6	3.0	3.8						
Resultant Wind Direction (Deg)	280	350	240	350	230	270						
Precipitation (cm)	12.07	17.75	9.63	15.29	6.60	15.47						
Available Sunshine (%)	53	45	54	53	75	60						
Sky Cover (sr-1) (10ths)	7.1	7.0	7.2	7.1	5.4	5.4						

Table 6.

		ATLANTA (QA TECH) YEAR 1981 MONTH 4																									
		DIRECT NORMAL KJ/M2																									
D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	2	2	3	3	8	259	190	484	1850	1651	2490	2376	1031	0	0	0	0	0	10350.	24	
2	0	0	0	0	0	0	308	2044	2885	3281	3431	3512	3558	3509	3374	3237	2869	2231	608	0	0	0	0	0	34847.	24	
3	0	0	0	0	0	0	151	1317	1069	1872	1168	672	2104	2058	2327	2315	1359	1163	83	0	0	0	0	0	17658.	24	
4	0	0	0	0	0	0	209	1319	797	1173	640	278	907	1546	1291	784	678	872	454	0	0	0	0	0	11048.	24	
5	0	0	0	0	0	0	2	3	3	3	4	370	136	1700	2424	3030	3158	2730	1360	0	0	0	0	0	14923.	24	
6	0	0	0	0	0	0	580	2322	3045	3324	3503	3575	3629	3611	3484	3310	3052	2538	1189	0	0	0	0	0	37162.	24	
7	0	0	0	0	0	0	111	9	53	371	3090	3388	3288	3405	2738	2645	2897	2124	261	0	0	0	0	0	24381.	24	
8	0	0	0	0	0	0	94	806	1032	2775	2802	1579	1075	1055	2383	1100	594	293	58	0	0	0	0	0	15645.	24	
9	0	0	0	0	0	0	94	200	3	26	300	405	1253	327	1032	923	2068	1517	3	0	0	0	0	0	8149.	24	
10	0	0	0	0	0	0	221	1059	864	1948	2210	2098	2248	1047	1509	985	463	880	6	0	0	0	0	0	15338.	24	
11	0	0	0	0	0	0	96	1103	1723	2168	2446	1134	1303	1298	1854	406	827	583	482	0	0	0	0	0	15222.	24	
12	0	0	0	0	0	0	109	451	456	1666	2274	1672	1765	1422	1660	1459	345	254	51	0	0	0	0	0	13584.	24	
13	0	0	0	0	0	0	199	1453	2131	2315	1325	1739	2434	2790	2246	1816	715	891	440	0	0	0	0	0	20495.	24	
14	0	0	0	0	0	0	4	5	3	273	1985	2408	2142	1141	567	1245	1719	1873	784	0	0	0	0	0	14148.	24	
15	0	0	0	0	0	0	72	340	1059	1339	2209	2918	3032	2618	547	48	3	61	455	1	0	0	0	0	14702.	24	
16	0	0	0	0	0	0	378	96	952	1723	2689	2232	209	4	251	102	6	6	243	0	0	0	0	0	9690.	24	
17	0	0	0	0	0	0	144	668	321	121	189	1073	500	23	19	96	629	210	5	1	0	0	0	0	3998.	24	
18	0	0	0	0	0	0	142	564	1437	1572	1584	336	652	1126	1183	1877	1237	228	3	1	0	0	0	0	11940.	24	
19	0	0	0	0	0	0	9	404	1884	2115	2053	1982	1115	634	251	577	263	806	377	3	0	0	0	0	12474.	24	
20	0	0	0	0	0	0	363	1324	1642	316	221	2	2	2	2	1973	2475	255	5	0	0	0	0	0	8583.	24	
21	0	0	0	0	0	0	2	3	3	3	3	7	3	3	11	3	3	3	3	1	0	0	0	0	49.	24	
22	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	46.	24	
23	0	0	0	0	0	0	3	116	147	130	5	369	1159	1361	528	265	18	3	3	1	0	0	0	0	4107.	24	
24	0	0	0	0	0	0	605	2092	2760	3145	3308	3168	2758	2679	3248	3115	2557	2335	1521	58	0	0	0	0	33343.	24	
25	0	0	0	0	0	0	1406	2600	3069	3354	3477	3158	2813	2648	2478	1820	535	10	406	72	0	0	0	0	27844.	24	
26	0	0	0	0	0	2	1107	2292	2773	3066	3212	3287	3275	3263	3210	3072	2804	2399	1422	69	0	0	0	0	35254.	24	
27	0	0	0	0	0	4	1213	2381	2857	3131	3275	3351	3408	3353	3249	3113	2817	2325	1485	81	0	0	0	0	36044.	24	
28	0	0	0	0	0	5	1190	2286	2813	3033	2806	2991	3077	3100	2995	2918	2377	1724	835	6	0	0	0	0	31956.	24	
29	0	0	0	0	0	2	372	1055	1432	1478	1415	301	2	118	2376	1087	566	204	737	1	0	0	0	0	11144.	24	
30	0	0	0	0	0	0	101	1219	1945	1688	1239	1922	2164	2290	1950	944	1825	2307	1295	65	0	0	0	0	20956.	24	
AV	0	0	0	0	0	0	310	1011	1305	1580	1763	1673	1673	1621	1701	1531	1372	1103	514	12	0	0	0	0	17169.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 N - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 7.

		ATLANTA (GA TECH)											YEAR 1981										MONTH 4						
		DIRECT (RG630) KJ/M2																											
		DAILY																											
		HOUR																											
D	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR		
1	0	0	0	0	0	0	0	3	5	6	6	9	154	113	301	1135	1026	1604	1642	832	0	0	0	0	0	0	6835.	24	
2	0	0	0	0	0	0	0	267	1511	1944	2116	2170	2198	2207	2187	2129	2073	1905	1593	500	0	0	0	0	0	0	22800.	24	
3	0	0	0	0	0	0	0	127	949	684	1169	704	402	1275	1243	1410	1429	868	795	81	0	0	0	0	0	0	11135.	24	
4	0	0	0	0	0	0	0	183	982	530	749	401	175	551	935	783	490	445	687	366	0	0	0	0	0	0	7274.	24	
5	0	0	0	0	0	0	0	4	6	6	6	7	207	78	992	1440	1829	1958	1816	1073	0	0	0	0	0	0	9422.	24	
6	0	0	0	0	0	0	0	353%	1651%	2103	2207	2287	2312	2339	2334	2279	2206	2102	1879	1026%	0	0	0	0	0	0	25078.	24	
7	0	0	0	0	0	0	0	112	16	40	244	2012	2176	2098	2182	1772	1749	1982	1556	226	0	0	0	0	0	0	16165.	24	
8	0	0	0	0	0	0	0	90	600	713	1850	1835	1004	681	679	1558	736	418	232	57	0	0	0	0	0	0	10452.	24	
9	0	0	0	0	0	0	0	84	179	6	20	197	244	780	203	656	599	1391	1116	6	0	0	0	0	0	0	5492.	24	
10	0	0	0	0	0	0	0	196	831	606	1322	1447	1379	1477	701	1029	690	343	540	9	0	0	0	0	0	0	10571.	24	
11	0	0	0	0	0	0	0	94	886	1249	1464	1623	738	830	827	1188	267	431	436	418	1	0	0	0	0	0	10453.	24	
12	0	0	0	0	0	0	0	92	347	301	1082	1443	1036	1092	892	1065	946	236	183	54	1	0	0	0	0	0	8770.	24	
13	0	0	0	0	0	0	0	123%	981	1489	1570	882	1135	1576	1794	1481	1289	540	728	411%	1	0	0	0	0	0	14001.	24	
14	0	0	0	0	0	0	0	7	8	6	198	1370	1625	1430	785	390	854	1191	1376	682%	1	0	0	0	0	0	9921.	24	
15	0	0	0	0	0	0	0	72	297	773	908	1435	1840	1892	1628	327	28	6	47	372	2	0	0	0	0	0	9626.	24	
16	0	0	0	0	0	0	0	330	674	634	1123	1758	1477	123	7	166	72	8	9	225	1	0	0	0	0	0	6606.	24	
17	0	0	0	0	0	0	0	127	536	234	78	125	747	345	19	16	75	500	185%	9	1	0	0	0	0	0	2996.	24	
18	0	0	0	0	0	0	0	133	467	1063	1091	1058	228	411	729	772	1241	842	168	6	1	0	0	0	0	0	8220.	24	
19	0	0	0	0	0	0	0	11	297	1297	1405	1356	1296	735	435	190	423	192	594	339	5	0	0	0	0	0	8575.	24	
20	0	0	0	0	0	0	0	318	1008	1167	219	149	5	5	5	5	1235	1621	176	7	1	0	0	0	0	0	5921.	24	
21	0	0	0	0	0	0	0	5	6	6	6	6	6	6	6	8	6	6	6	6	6	1	0	0	0	0	0	78.	24
22	0	0	0	0	0	0	0	6	6	6	6	6	6	6	10	6	6	6	6	6	6	1	0	0	0	0	0	80.	24
23	0	0	0	0	0	0	0	6	92	113	92	7	247	773	880	330	177	16	6	6	6	1	0	0	0	0	0	2746.	24
24	0	0	0	0	0	0	0	762%	1524	1859	2031	2102	1994	1722	1679	2049	1988	1675	1615	1205	58	0	0	0	0	0	22263.	24	
25	0	0	0	0	0	0	0	1187	1888	2082	2181	2213	1981	1747	1661	1554	1148	342	8	354	71	0	0	0	0	0	18419.	24	
26	0	0	0	0	0	0	0	3	931	1652	1868	1990	2053	2079	2057	2046	2024	1966	1861	1679	1141	70%	0	0	0	0	0	23423.	24
27	0	0	0	0	0	0	0	4	1012%	1700	1914	1999%	2085	2118	2142	2121	2073	2017	1896	1679	1216	84%	0	0	0	0	0	24059.	24
28	0	0	0	0	0	0	0	6	998%	1653	1890	1984	1801	1911	1962	1990	1954	1937	1671	1280	555%	9	0	0	0	0	0	21603.	24
29	0	0	0	0	0	0	0	3	319	777	972	965	926	201	6	73	1436	722	397	163	639%	2	0	0	0	0	0	7651.	24
30	0	0	0	0	0	0	0	1	85	891	1311	1095	770	1185	1320	1401	1195	590	1177	1589	1054	67%	0	0	0	0	0	13729.	24
AV	0	0	0	0	0	0	1	268	747	886	1039	1142	1070	1059	1025	1082	994	921	793	429	13	0	0	0	0	0	11479.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

14

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 % - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 8.

D A Y	ATLANTA (GA TECH)													YEAR 1981		MONTH 4						TOTL	HR					
	GLOBAL HORIZ. KJ/M2													HOUR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			22	23	24		
1	0	0	0	0	0	0	2	50s	97	157	652	1970	1775	1657	2550	1980	1738	951	192	0	0	0	0	0	13770.	24		
2	0	0	0	0	0	0	46	592	1415	2199	2808	3232	3425	3334	2981	2441	1698	875	157	0	0	0	0	0	0	25203.	24	
3	0	0	0	0	0	0	47	588	1089	1893	2246	2123	3009	2922	2775	2316	1328	825	87	0	0	0	0	0	0	21245.	24	
4	0	0	0	0	0	0	45	527	1057	1832	2030	1485	2165	2597	2063	1398	1001	680	184	0	0	0	0	0	0	17064.	24	
5	0	0	0	0	0	0	3	37	132	329	942	2022	1395	2600	2753	2478	1834	1014	233	0	0	0	0	0	0	15772.	24	
6	0	0	0	0	0	0	67	651	1494	2249	2896	3344	3536	3466	3106	2531	1805	967	215	0	0	0	0	0	0	26323.	24	
7	0	0	0	0	0	0	73	324	699	1309	2749	3263	3398	3368	2808	2264	1734	889	128	0	0	0	0	0	0	23005.	24	
8	0	0	0	0	0	0	60	535	988	2189	2767	2923	2726	2511	2917	1930	1188	560	132	0	0	0	0	0	0	21426.	24	
9	0	0	0	0	0	0	75	398	529	959	1606	1788	2574	1721	2257	1784	1602	794	96	0	0	0	0	0	0	16183.	24	
10	0	0	0	0	0	0	93	605	1132	1884	2518	2928	3324	2340	2472	1644	991	724	96	0	0	0	0	0	0	20749.	24	
11	0	0	0	0	0	0	68	591	1347	2062	2705	2331	2507	2439	2625	1539	1255	775	246	0	0	0	0	0	0	20491.	24	
12	0	0	0	0	0	0	69	468	969	2042	2634	2902	2947	2786	2411	1983	986	591	88	1	0	0	0	0	0	20877.	24	
13	0	0	0	0	0	0	68	682	1434	2102	2063	2735	3116	3215	2772	2178	1036	678	207	1	0	0	0	0	0	22286.	24	
14	0	0	0	0	0	0	65	353	543	1295	2679	3033	2991	2403	1414	1719	1450	896	216	1	0	0	0	0	0	19057.	24	
15	0	0	0	0	0	0	109	456	1228	1994	2761	3231	3381	3232	2128	1328	614	454	254	1	0	0	0	0	0	21171.	24	
16	0	0	0	0	0	0	168	808	1377	1993	2838	3124	2103	1232	1720	1086	695	363	254	1	0	0	0	0	0	17762.	24	
17	0	0	0	0	0	0	171	612	1076	1535	1973	2609	2146	1276	1119	1150	1206	600	131	1	0	0	0	0	0	15604.	24	
18	0	0	0	0	0	0	104	623	1418	2036	2559	1652	2311	2543	2235	2266	1374	502	122	1	0	0	0	0	0	19746.	24	
19	0	0	0	0	0	0	110	445	1435	2090	2685	2988	2401	2024	1369	1463	1055	796	206	3	0	0	0	0	0	19071.	24	
20	0	0	0	0	0	0	134	728	1434	1337	1100	119	478	443	956	2274	1798	481	129	1	0	0	0	0	0	11410.	24	
21	0	0	0	0	0	0	17	131	332	515	1068	1793	1255	1783	1583	795	525	402	67	1	0	0	0	0	0	10268.	24	
22	0	0	0	0	0	0	25	233	263	317	575	977	1237	1453	897	657	493	396	58	1	0	0	0	0	0	7597.	24	
23	0	0	0	0	0	0	62	542	612	912	726	1812	2698	2798	1932	1282	499	122	56	1	0	0	0	0	0	14054.	24	
24	0	0	0	0	0	0	183	882	1703	2451	3102	3449	3491	3402	3216	2676	1880	1124	348	4	0	0	0	0	0	27909.	24	
25	0	0	0	0	0	0	237	964	1779	2524	3123	3401	3440	3374	2996	2299	1277	599	243	13	0	0	0	0	0	26268.	24	
26	0	0	0	0	0	0	1	226	905	1662	2371	2953	3350	3493	3412	3093	2547	1834	1055	319	4	0	0	0	0	27224.	24	
27	0	0	0	0	0	0	1	232	911	1673	2389	2978	3368	3544	3429	3084	2549	1834	1040	328	3	0	0	0	0	27361.	24	
28	0	0	0	0	0	0	1	231	905	1681	2411	2966	3288	3476	3361	3086	2548	1751	969	281	5	0	0	0	0	26959.	24	
29	0	0	0	0	0	0	1	165	827	1448	1985	2579	1379	357	1341	3148	1855	1078	493	347	2	0	0	0	0	17005.	24	
30	0	0	0	0	0	0	1	183	885	1612	2117	2444	3048	3207	3212	2811	1951	1712	1123	342	6	0	0	0	0	24655.	24	
AV	0	0	0	0	0	0	105	575	1122	1716	2257	2522	2597	2523	2376	1897	1309	725	192	2	0	0	0	0	0	19917.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 9.

		ATLANTA (GA TECH)										YEAR 1981					MONTH 4										
		GLOBAL (RG630) KJ/M2																									
D A Y	HOUR																				TOTL	HR					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			21	22	23	24	
1	0	0	0	0	0	0	5	40s	74	107	376	1160	1028	970	1524	1182	1059	598	130	0	0	0	0	0	8254.	24	
2	0	0	0	0	0	0	44	422	937	1404	1765	2014	2122	2060	1842	1511	1059	562	100	0	0	0	0	0	15842.	24	
3	0	0	0	0	0	0	37	399	682	1175	1370	1271	1808	1749	1657	1386	795	511	68	0	0	0	0	0	12908.	24	
4	0	0	0	0	0	0	47	362	667	1121	1222	875	1266	1521	1190	803	587	417	130	0	0	0	0	0	10207.	24	
5	0	0	0	0	0	0	12	28	80	181	529	1172	803	1536	1634	1484	1118	647	169	0	0	0	0	0	9392.	24	
6	0	0	0	0	0	0	68	467	972	1414	1794	2045	2152	2104	1898	1550	1119	625	154	0	0	0	0	0	16351.	24	
7	0	0	0	0	0	0	78%	235	448	808	1692	1982	2050	2032	1697	1390	1084	569	96	0	0	0	0	0	14161.	24	
8	0	0	0	0	0	0	62	363	614	1343	1666	1740	1608	1473	1732	1150	708	349	101	0	0	0	0	0	12907.	24	
9	0	0	0	0	0	0	69	275	331	569	946	1051	1521	997	1326	1051	959	490	67	0	0	0	0	0	9652.	24	
10	0	0	0	0	0	0	84	416	708	1145	1518	1771	2012	1383	1463	966	579	458	74	1	0	0	0	0	12578.	24	
11	0	0	0	0	0	0	59	403	844	1261	1629	1389	1494	1437	1552	904	751	479	170	1	0	0	0	0	12373.	24	
12	0	0	0	0	0	0	64	308	601	1246	1575	1723	1741	1633	1425	1168	579	363	72	1	0	0	0	0	12499.	24	
13	0	0	0	0	0	0	70%	445%	895	1293	1243	1637	1862	1904	1648	1318	584	417	135	0	0	0	0	0	13453.	24	
14	0	0	0	0	0	0	61	235	343	791	1633	1837	1794	1433	840	1014	864	552	143	1	0	0	0	0	11540.	24	
15	0	0	0	0	0	0	102	312	763	1207	1645	1909	1991	1897	1240	775	368	282	179	2	0	0	0	0	12671.	24	
16	0	0	0	0	0	0	147	555	859	1209	1717	1883	1246	730	1024	645	417	233	187	2	0	0	0	0	10853.	24	
17	0	0	0	0	0	0	138	404	665	918	1176	1550	1265	739	648	665	729	375	94	1	0	0	0	0	9369.	24	
18	0	0	0	0	0	0	84	416	881	1223	1524	951	1325	1468	1304	1330	811	299	86	1	0	0	0	0	11708.	24	
19	0	0	0	0	0	0	91	294	900	1278	1612	1779	1410	1192	781	851	622	483	141	6	0	0	0	0	11437.	24	
20	0	0	0	0	0	0	105	472	886	791	650	73	263	246	544	1336	1061	284	96	2	0	0	0	0	6810.	24	
21	0	0	0	0	0	0	38	101	212	311	623	1037	716	1027	917	466	320	259	59	4	0	0	0	0	6088.	24	
22	0	0	0	0	0	0	45	164	177	203	342	572	719	847	524	387	302	251	62	3	0	0	0	0	4599.	24	
23	0	0	0	0	0	0	50	337	373	535	416	1047	1563	1606	1093	730	288	85	56	3	0	0	0	0	8183.	24	
24	0	0	0	0	0	0	138	587	1066	1496	1869	2055	2074	2016	1906	1587	1125	689	224	3	0	0	0	0	16836.	24	
25	0	0	0	0	0	0	181	643	1119	1551	1891	2048	2053	2025	1786	1370	763	365	166	13	0	0	0	0	15975.	24	
26	0	0	0	0	0	0	2	171	591	1028	1444	1773	1991	2058	2003	1813	1499	1085	633	195	3	0	0	0	16290.	24	
27	0	0	0	0	0	0	2	164	591	1035	1446	1725s2004	2091	2024	1815	1501	1089	630	201	2	0	0	0	0	16318.	24	
28	0	0	0	0	0	0	2	167	586	1044	1476	1789	1963	2056	1984	1815	1502	1048	590	178	5	0	0	0	16204.	24	
29	0	0	0	0	0	0	2	113	527	866	1176	1513	800	208	758	1840	1074	615	272	220	1	0	0	0	9985.	24	
30	0	0	0	0	0	0	3	118	553	982	1260	1439	1792	1868	1866	1631	1139	1004	675	216	5	0	0	0	14550.	24	
AV	0	0	0	0	0	0	87	384	702	1046	1355	1504	1539	1489	1403	1124	783	448	132	2	0	0	0	0	12000.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 10

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 4	
		DIFFUSE HORIZ. KJ/M2																											
D A Y	HOUR																								TOTL	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	3	65	128	186	658	1718	1578	1231	1061	840	488	245	87	0	0	0	0	0	8296.	24			
2	0	0	0	0	0	0	25	153	219	262	296	327	332	344	347	319	284	216	98	0	0	0	0	0	3223.	24			
3	0	0	0	0	0	0	35	311	623	745	1355	1515	1134	1121	905	756	618	447	77	0	0	0	0	0	9642.	24			
4	0	0	0	0	0	0	38	253	682	1110	1516	1250	1351	1248	1031	891	693	401	154	0	0	0	0	0	10618.	24			
5	0	0	0	0	0	0	12	62	159	346	941	1663	1254	1090	798	436	220	169	73	0	0	0	0	0	7223.	24			
6	0	0	0	0	0	0	21	114	169	218	252	289	287	289	299	285	237	173	65	0	0	0	0	0	2696.	24			
7	0	0	0	0	0	0	63	315	650	1016	393	355	439	377	595	496%	277	214	110	0	0	0	0	0	5299.	24			
8	0	0	0	0	0	0	57	306	525	465	620	1529	1706	1545	963	1138	888	489	153	0	0	0	0	0	10385.	24			
9	0	0	0	0	0	0	78	375	541	945	1365	1433	1415	1426	1386	1131	545	299	125	0	0	0	0	0	11069.	24			
10	0	0	0	0	0	0	82	349	740	646	818%	1108%	1303	1419	1247	983	773	512	94	1	0	0	0	0	10074.	24			
11	0	0	0	0	0	0	70	319	572	703	817	1351	1323	1273	1109	1262	952	628	220	2	0	0	0	0	10600.	24			
12	0	0	0	0	0	0	72	380	730	962	862	1421	1331	1505	1086	987	824	482	79	2	0	0	0	0	10722.	24			
13	0	0	0	0	0	0	57	279	438	632	1060	1220	905	742	935	946	693	428	187	1	0	0	0	0	8523.	24			
14	0	0	0	0	0	0	79	373	564	1106	1123	938	1055	1399	1001	877	569	304	139	2	0	0	0	0	9529.	24			
15	0	0	0	0	0	0	112	392	715	1099	1002	660	594	860%	1642	1292	643	465	210	2	0	0	0	0	9689.	24			
16	0	0	0	0	0	0	139	583	905	815	710	1139	1875	1241	1499	1025	715	395	251	3	0	0	0	0	11296.	24			
17	0	0	0	0	0	0	163	429	930	1434	1799	1647	1682	1272	1123	1096	900	560	128	3	0	0	0	0	13168.	24			
18	0	0	0	0	0	0	103	466	724	995	1298	1348	1674	1490	1240%	927	738	435	124	2	0	0	0	0	11564.	24			
19	0	0	0	0	0	0	122	312	526	694	1035	1228	1381	1456	1184	1076	919	562	193	8	0	0	0	0	10695.	24			
20	0	0	0	0	0	0	106	346	647	1120	928	153	498	465	964	901%	450	395	155	3	0	0	0	0	7131.	24			
21	0	0	0	0	0	0	29	145	343	522	1059	1755	1250	1766	1565	812	546	423	91	2	0	0	0	0	10309.	24			
22	0	0	0	0	0	0	39	246	277	329	581	974	1232	1439	910	672	513	417	91	2	0	0	0	0	7722.	24			
23	0	0	0	0	0	0	78	509	564	837	736	1459	1591	1523	1468	1104	531	155	83	1	0	0	0	0	10639.	24			
24	0	0	0	0	0	0	118	254	306	320	396	559	858	896	454	413	470	299	120	5	0	0	0	0	5469.	24			
25	0	0	0	0	0	0	67	160	214	234	265	519	749	904	869	932	948	597	221	13	0	0	0	0	6691.	24			
26	0	0	0	0	0	0	78	185	241	283	321	366	403	403	379	342	299	225	122	8	0	0	0	0	3655.	24			
27	0	0	0	0	0	1	71	158	212	264*	305*	325	338	359	355	334	302	239	129	9	0	0	0	0	3475.	\$22			
28	0	0	0	0	0	1	77	185	247	341	659	565	560	514	558	456	460	364	205	14	0	0	0	0	5224.	24			
29	0	0	0	0	0	1	110	510	712	940	1382	1116	411	1231	1093	1041	763	450	233	8	0	0	0	0	10005.	24			
30	0	0	0	0	0	1	164	463	583	953	1391	1255	1128	1057	1107	1235	717	292	147	11	0	0	0	0	10504.	24			
AV	0	0	0	0	0	0	76	300	496	699\$	884\$	1040	1055	1063	972	834	599	376	139	3	0	0	0	0	8536.	\$			
HR	30	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	718			

17

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 % - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 11.

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 4	
		LAT. TILTED KJ/M2																											
D A Y	HOUR																								TOTL	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	5	41s	77	132	556	1863	1692	1715	2808	2110	1882	994	170	0	0	0	0	0	14045.	24			
2	0	0	0	0	0	0	34	570	1493	2408	3123	3618	3842	3731	3306	2668	1788	874	136	0	0	0	0	0	27591.	24			
3	0	0	0	0	0	0	36	543	1080	2026	2329	2145	3274z	3151z	3023	2420	1365	804	85	0	0	0	0	0	22281.	24			
4	0	0	0	0	0	0	41	497	1053	1892	2059	1443	2213	2742	2170	1409	980	647	160	0	0	0	0	0	17306.	24			
5	0	0	0	0	0	0	7	34	116	273	819	1933	1258	2750	2949	2659	1902	988	179	0	0	0	0	0	15864.	24			
6	0	0	0	0	0	0	42	594	1521	2403	3159	3678	3898	3803	3381	2705	1854	926	168	0	0	0	0	0	28133.	24			
7	0	0	0	0	0	0	64	309	590	1297	2995	3526	3622	3640	3013	2439	1796	850	112	0	0	0	0	0	24260.	24			
8	0	0	0	0	0	0	54	492	990	2316	2932	3004	2863	2618	3104	1915	1117	501	114	0	0	0	0	0	22020.	24			
9	0	0	0	0	0	0	67	349	471	865	1553	1736	2718	1729	2281	1774	1661	756	98	0	0	0	0	0	16058.	24			
10	0	0	0	0	0	0	72	538	1087	1948	2651	3127	3506	2373	2543	1668	972	670	97	1	0	0	0	0	21251.	24			
11	0	0	0	0	0	0	60	523	1315	2121	2854	2365	2620	2574	2713	1485	1190	693	203	1	0	0	0	0	20717.	24			
12	0	0	0	0	0	0	61	426	912	2035	2752	2986	3086	2836	2513	1975	912	551	78	1	0	0	0	0	21124.	24			
13	0	0	0	0	0	0	64	520	1405	2173	2110	2868	3335	3461	2928	2242	1033	621	161	1	0	0	0	0	22922.	24			
14	0	0	0	0	0	0	62	320	473	1212	2797	3239	3193	2449	1449	1755	1436	803	158	1	0	0	0	0	19347.	24			
15	0	0	0	0	0	0	96	379	1127	1956	2907	3471	3608	3434	2082	1277	530	371	188	2	0	0	0	0	21429.	24			
16	0	0	0	0	0	0	132	895	1284	2024	2948	3225	2020	1189	1651	972	612	319	202z	2	0	0	0	0	17274.	24			
17	0	0	0	0	0	0	135x	533	982	1406	1898	2654	2092	1161	988	1046	1125	526	118	2	0	0	0	0	14665.	24			
18	0	0	0	0	0	0	85	545	1344	2056	2559	1554	2346	2615	2278	2251	1328	463	119	2	0	0	0	0	19546.	24			
19	0	0	0	0	0	0	102	391	1342	2077	2730	3050	2387	1962	1281	1411	968	680	137	4	0	0	0	0	18519.	24			
20	0	0	0	0	0	0	95	597	1313	1252	1062	92	408	393	734	2194	1890	424	87	2	0	0	0	0	10394.	24			
21	0	0	0	0	0	0	19	112	282	456	979	1612	1112	1595	1430	691	458	364	68	2	0	0	0	0	9179.	24			
22	0	0	0	0	0	0	29	209	233	276	492	896	1133	1283	766	573	423	341	65	2	0	0	0	0	6721.	24			
23	0	0	0	0	0	0	55	445	530	830	636	1713	2679	2739	1837	1172	449	115	55	2	0	0	0	0	13257.	24			
24	0	0	0	0	0	0	117	684	1540	2360	3089	3525	3638	3491	3251	2602	1714	868	176	3	0	0	0	0	27059.	24			
25	0	0	0	0	0	0	98	711	1588	2410	3064	3455	3457	3376	3001	2226	1185	506	165z	7	0	0	0	0	25250.	24			
26	0	0	0	0	0	0	1	102	669	1481	2260	2891	3381	3565	3454	3072	2429	1644	814	162	4	0	0	0	25929.	24			
27	0	0	0	0	0	0	1	94	655	1477	1921m	2945m	3400	3598	3463	3053	2438	1647	796	159	3	0	0	0	25976.	22			
28	0	0	0	0	0	0	1	95	654	1481	2309	2974	3310	3502	3367	3034	2419	1556	749	171	5	0	0	0	25628.	24			
29	0	0	0	0	0	0	2	105	617	1270	1809	2421	1363	349	1181	3102	1747	943	404	212	3	0	0	0	15528.	24			
30	0	0	0	0	0	0	2	132	669	1398	1931	2318	3037	3215	3183	2737	1837	1536	862	175	4	0	0	0	23035.	24			
AV	0	0	0	0	0	0	72	477	1042	1673	2264	2576	2674	2582	2418	1884	1257	643	139	2	0	0	0	0	19702.	s			
HR	30	30	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	718				

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 FLAGS:  
 x - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 m - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 s - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 12.

ATLANTA (GA TECH) YEAR 1981 MONTH 4

INFRARED 10 KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	149	150	146%	144%	143	143	143	153%	147	152	156%	152%	146	137	131	123	129	130	124	115%	112%	110%	108%	105%	3247.	24
2	105%	104%	104%	103%	103	102	106	120	122	123	121	120%	117%	119%	125%	127%	131	133	127	119%	117%	116%	115%	114%	2792.	24
3	113	111	112	113%	112	110	115	128	129	131	133	133	130%	125	127	136	138	140	138	131	128	125	124	124	3007.	24
4	121	121	122	120	120	119	123	134	141	141	144	153	144	141%	148	151	153	150	143	136	140	135	136	135	3271.	24
5	139	142	149	150	147	142	142	143	143	143	145	141	143	130%	126	121%	119	120	116	108	107	105	104	103	3129.	24
6	102	101	100	99	99	99	106%	120	119	118	111	108%	103%	104%	115%	114	117	122	117	109	110	109	107	106	2616.	24
7	105	108	112	113	115	110	116	124	128	126	116	115%	119%	124%	125%	122	127	128	126	132	139	125	117	115	2886.	24
8	115	114	119	120	121	127	127	131	130	131	127	129	123	134	135%	139	141	142	137	137	136	141	139	135	3134.	24
9	138	137	136	136	133	134	128	138	141	141	143	145	137	146	141	146	141	143	147	146	141	147	135	130	3352.	24
10	130	137	129	132	130	126	133	143	147	143	140	144%	141	138	143	149	152	153	154	148	136	135	133	133	3346.	24
11	131	130	128	127	128	127	129	139	142	140	136	142	150%	147%	139	148	140	149	144	134	133	132	131	130	3286.	24
12	131	132	132	129	127	126	130	140	147	142	138	150%	149%	143	142	147	152	151	151	144	137	130	129	127	3325.	24
13	126	124	123	121	120	122	127	136	141	142	142	149	147%	146%	142	147	150	151	150	139	137	137	137	142	3295.	24
14	134	132	130	127	126	127	140	145	151	147	137	133	147%	155%	156	149	149	150	148	139	138	137	132	131	3360.	24
15	129	131	125	133	134	133	136	140	140	140	132%	123	132%	134%	139	146	147	143	136	120	117	115	114	117	3160.	24
16	116	114	114	114	114	114	125	138	135	130	123	120	138	147	145	146	147	147	141	130	128	127	129	130	3112.	24
17	130	127	127	125	127	129	131	135	142	145	145	136	136	154	154	150	147	147	141	134	133	132	132	131	3293.	24
18	129	129	131	131	131	129	133	143	143	143	143	145	149	139	142	142	142	145	145	146	143	138	136	135	3323.	24
19	136	136	135	134	136	135	138	140	145	145	143	152%	157%	153	154	152	152	149	143	136	131	130	129	129	3391.	24
20	129	128	139	134	128	129	135	143	145	152	155	149%	149	147	144	137	138	146	148	144	143	140	141	142	3384.	24
21	143	141	140	140	139	137	138	139	140	141	141	142	143	143	143	145	145	145	142	139	138	137	135	137	3371.	24
22	136	135	135	134	135	135	138	140	140	141	142	143	144	144	146	146	146	141	147	142	139	143	142	142	3373.	24
23	144	145	144	143	141	140	138	143	150	150	154	147	152%	152%	149	156	158	148	144	143	142	140	140	140	3502.	24
24	142	140	123	114	120	115	121	127	125	124	116	133%	135%	117%	116%	121%	126	128	124	114%	112	110	109	108	2921.	24
25	106	104	103	103	102	101	112	119	119	115	109%	107%	124%	129%	116%	122	129	135%	130	121	116	115	113	112	2763.	24
26	112	111	111	112	113	115	124%	132	134	131	126	135%	138%	138	128	137	141	144	142	134	131	130	128	127	3074.	24
27	125	124	123	122	121	122	133%	137%	141	132%	136	130	141%	142%	134	141	145	148	145	135	132	130	129	128	3197.	24
28	126	125	124	123	123	124	135%	138	143	144	143%	138	144%	137	139	143	148	149	146	139	136	134	133	133	3266.	24
29	130	129	128	127	126	127	133	143	147	145	148	159	153	146	145%	153%	154	151	147	139	142	147	139	133	3391.	24
30	138	143	151	153	152	140	145	145	147	147	150	148%	143	146	144	152	151	150	146	138	135	133	128	125	3462.	24
AV	127	127	126	126	125	125	129	137	139	138	137	137	139	139	138	140	142	143	140	133	131	129	128	127	3201.	
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:

- \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 13.

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 4	
		ULTRAVIOLET KJ/M2																											
D A Y	HOUR																								TOTL	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	0	0	5s	9	13	42	105	99	89	123	94	72	37	10	0	0	0	0	0	0	698.	24	
2	0	0	0	0	0	0	0	3	24	58	96	125	146	154	146%	125%	98%	63	32	9	0	0	0	0	0	0	1076.	24	
3	0	0	0	0	0	0	0	3	25	51	86	104	105	142	138	128	102	61	36	8	0	0	0	0	0	0	987.	24	
4	0	0	0	0	0	0	0	3	25	53	90	102	81	112	127	105	76	51	32	10	0	0	0	0	0	0	867.	24	
5	0	0	0	0	0	0	0	1	5	12	25	60	115	86	138	137	116	80	42	11	0	0	0	0	0	0	827.	24	
6	0	0	0	0	0	0	0	3	26	64	105	140	166	177	171	148	115	76	39	11	0	0	0	0	0	0	1242.	24	
7	0	0	0	0	0	0	0	3	17	38	71	134	161	169	164	135	106	74	37	10	0	0	0	0	0	0	1119.	24	
8	0	0	0	0	0	0	0	3	25	53	102	132	144	139	130	138	91	59	30	10	0	0	0	0	0	0	1056.	24	
9	0	0	0	0	0	0	0	4	20	32	58	86	97	134	93	111	85	69	35	10	0	0	0	0	0	0	834.	24	
10	0	0	0	0	0	0	0	4	27	53	87	115	130	143	112	114	82	53	31	9	0	0	0	0	0	0	960.	24	
11	0	0	0	0	0	0	0	5	27	60	95	127	115	122	121	123	78	59	34	12	0	0	0	0	0	0	976.	24	
12	0	0	0	0	0	0	0	5	26	49	96	127	139	143	135	115	92	51	31	7	0	0	0	0	0	0	1018.	24	
13	0	0	0	0	0	0	0	5	30	65	97	101	133	148	152	126	92	58	33	11	0	0	0	0	0	0	1052.	24	
14	0	0	0	0	0	0	0	5	22	32	68	126	142	142	115	74	85	65	38	12	0	0	0	0	0	0	926.	24	
15	0	0	0	0	0	0	0	4	24	59	97	137	164	171	161	110	72	37	29	12	0	0	0	0	0	0	1077.	24	
16	0	0	0	0	0	0	0	6	31	64	98	134	147	109	69	87	59	41	22	10	0	0	0	0	0	0	876.	24	
17	0	0	0	0	0	0	0	7	30	55	81	102	133	111	73	65	66	58	30	11	0	0	0	0	0	0	823.	24	
18	0	0	0	0	0	0	0	7	29	66	98	122	91	128	134	114	105	66	30	10	0	0	0	0	0	0	998.	24	
19	0	0	0	0	0	0	0	7	26	66	97	125	142	118	101	79	76	54	36	11	1	0	0	0	0	0	940.	24	
20	0	0	0	0	0	0	0	8	34	66	71	60	11	35	33	61	114	82	31	8	0	0	0	0	0	0	615.	24	
21	0	0	0	0	0	0	0	3	10	23	35	67	105	79	105	92	51	34	24	6	0	0	0	0	0	0	634.	24	
22	0	0	0	0	0	0	0	4	17	19	23	40	63	78	89	57	45	32	25	6	0	0	0	0	0	0	498.	24	
23	0	0	0	0	0	0	0	8	32	36	55	48	103	143	144	105	71	32	12	7	0	0	0	0	0	0	795.	24	
24	0	0	0	0	0	0	0	10	39	78	119	156	176	178	171	157	124	83	47	16	1	0	0	0	0	0	1355.	24	
25	0	0	0	0	0	0	0	11	42	82	124	159	175	178	173	150	113	67	34	12	1	0	0	0	0	0	1319.	24	
26	0	0	0	0	0	0	0	11	40	76	113	143	166	173	168	149	117	80	45	16	1	0	0	0	0	0	1298.	24	
27	0	0	0	0	0	0	0	11	40	74	112	143	163	174	164	143	115	78	43	16	1	0	0	0	0	0	1275.	24	
28	0	0	0	0	0	0	0	12	40	76	110	137	157	168	160	143	113	74	41	15	1	0	0	0	0	0	1246.	24	
29	0	0	0	0	0	0	0	11	39	73	103	132	75	28	83	163	97	59	35%	16	1	0	0	0	0	0	916.	24	
30	0	0	0	0	0	0	0	11	41	76	106	126	155	165	162	140	98	79	48	17	1	0	0	0	0	0	1226.	24	
AV	0	0	0	0	0	0	6	27	54	84	112	127	131	127	117	92	62	34	11	0	0	0	0	0	0	0	984.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720		

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FLAGS:

% - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 14.

		ATLANTA (GA TECH)											YEAR 1981											MONTH 4		
		AVAILABLE SUNSHINE %																								
D A Y	HOUR																								AVG	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	0	0	0	11	2	23	89	77	98	100	74	0	0	0	0	0	38.	24	
2	0	0	0	0	0	0	43	100	100	100	100	100	100	100	100	100	100	100	38	0	0	0	0	93.	24	
3	0	0	0	0	0	0	0	99	87	99	69	28	100	99	100	100	77	65	0	0	0	0	0	74.	24	
4	0	0	0	0	0	0	16	93	40	60	34	13	38	58	49	34	34	65	34	0	0	0	0	45.	24	
5	0	0	0	0	0	0	0	0	0	0	0	18	7	59	80	95	100	100	84	0	0	0	0	43.	24	
6	0	0	0	0	0	0	66	100	100	100	100	100	100	100	100	100	100	100	72	0	0	0	0	96.	24	
7	0	0	0	0	0	0	2	0	0	21	100	100	100	100	100	100	100	95	12	0	0	0	0	66.	24	
8	0	0	0	0	0	0	0	44	47	100	100	68	48%	45	87	63	42	10	0	0	0	0	0	52.	24	
9	0	0	0	0	0	0	0	3	0	1	14	16%	61	15	66	45	100	85	0	0	0	0	0	32.	24	
10	0	0	0	0	0	0	20	80	51	87	100	97	87	46	67	46	26	46	0	0	0	0	0	59.	24	
11	0	0	0	0	0	0	0	80	100	100	100	56	71	64	79	11	37	34	39	0	0	0	0	61.	24	
12	0	0	0	0	0	0	0	37	25	81	95	85	84	74	72	70	21	14	0	0	0	0	0	52.	24	
13	0	0	0	0	0	0	13	100	100	100	57	70	94	100	91	86	39	67	31	0	0	0	0	74.	24	
14	0	0	0	0	0	0	0	0	17	98	100	88	54	27	57	80	99	57	0	0	0	0	0	53.	24	
15	0	0	0	0	0	0	0	30	65	65	99	100	100	100	29	1	0	2	25	0	0	0	0	48.	24	
16	0	0	0	0	0	0	28	61	53	66	100	98	10	0	13	6	0	0	11	0	0	0	0	34.	24	
17	0	0	0	0	0	0	0	54	18	4	9	61	27	1	1	6	51	7	0	0	0	0	0	18.	24	
18	0	0	0	0	0	0	0	29	100	99	79	20	32	54	52	98	76	9	0	0	0	0	0	50.	24	
19	0	0	0	0	0	0	0	21	100	100	100	80	57	45	17	44	6	58	25	0	0	0	0	50.	24	
20	0	0	0	0	0	0	20	100	94	19	12	0	0	0	0	81	99	14	0	0	0	0	0	33.	24	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
23	0	0	0	0	0	0	0	8	10	8	0	20	54	60	30	13	0	0	0	0	0	0	0	15.	24	
24	0	0	0	0	0	0	42	100	100	100	100	100	100	100	100	100	100	100	95	0	0	0	0	94.	24	
25	0	0	0	0	0	0	83	100	100	100	100	100	100	100	100	96	41	0	33	0	0	0	0	80.	24	
26	0	0	0	0	0	0	72	100	100	100	100	100	100	100	100	100	100	100	92	0	0	0	0	96.	24	
27	0	0	0	0	0	0	77	100	100	100	100	100	100	100	100	100	100	100	97	1%	0	0	0	96.	24	
28	0	0	0	0	0	0	2%	77	100	100	100	100	100	98	99	100	95	100	46	1%	0	0	0	91.	24	
29	0	0	0	0	0	0	2%	20	70	73	81	88	20	2	9	93	50	31	15	57	2%	0	0	46.	24	
30	0	0	0	0	0	0	2%	11	83	100	96	87	95	96	100	98	73	91	100	93	2%	0	0	84.	24	
AV	0	0	0	0	0	2	22	57	59	63	68	62	62	60	65	62	58	53	34	1	0	0	0	56.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 48.

Table 15.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 5					
		DIRECT NORMAL KJ/M2																									
D A Y		HOUR																								T O T L	H R
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	1	875	2414	1118	542	808	76	6	38	325	322	1563	533	887	14	0	0	0	0	9326	24	
2	0	0	0	0	0	27	1347	2497	3051	3263	3439	3504	3531	3509	3408	3297	3045	2563	1618	117	0	0	0	0	38215	24	
3	0	0	0	0	0	34	1453	1751	2059	3132	3368	3427	3430	3167	2924	1539	889	431	49	11	0	0	0	0	27665	24	
4	0	0	0	0	0	29	752	1338	1519	2458	2939	2621	985	2283	1884	2611	2064	1790	353	4	0	0	0	0	23627	24	
5	0	0	0	0	0	8	833	1531	1835	1384	793	1390	2371	1916	2059	1857	6	27	47	1	0	0	0	0	16108	24	
6	0	0	0	0	0	1	10	3	5	5	2	2	2	2	2	2	2	2	2	1	0	0	0	0	44	24	
7	0	0	0	0	0	1	2	41	557	1117	1190	252	2	219	12	2	2	3	2	1	0	0	0	0	3404	24	
8	0	0	0	0	0	21	1035	2062	2680	2960	3104	3184	3251	3237	3161	2481	2670	2106	1344	80	0	0	0	0	33374	24	
9	0	0	0	0	0	41	998	2195	876	2472	2432	1711	578	719	49	9	6	13	337	2	0	0	0	0	12440	24	
10	0	0	0	0	0	1	3	3	4	3	3	3	9	272	369	18	64	15	21	1	0	0	0	0	790	24	
11	0	0	0	0	0	1	2	6	53	2	2	2	2	3	2	1	2	2	2	1	0	0	0	0	81	24	
12	0	0	0	0	0	12	837	2203	2652	3099	3271	3377	3462	3410	3316	3199	3029	2675	1817	217	0	0	0	0	36626	24	
13	0	0	0	0	0	39	1084	2129	2630	2908	3074	3153	3139	2667	2567	2409	1984	1789	1201	79	0	0	0	0	30851	24	
14	0	0	0	0	0	25	903	1915	1932	1374	680	1257	1067	626	264	1805	2226	867	786	2	0	0	0	0	15728	24	
15	0	0	0	0	0	84	1243	1549	199	13	529	26	3	93	2	162	198	67	68	35	0	0	0	0	4272	24	
16	0	0	0	0	0	71	568	82	312	173	47	1049	297	1220	1376	196	26	2	146	1	0	0	0	0	5566	24	
17	0	0	0	0	0	1	3	104	85	649	1254	9	196	456	426	1946	1453	530	412	70	0	0	0	0	7624	24	
18	0	0	0	0	0	39	1049	1803	2194	2143	2723	2969	3114	2821	2886	2883	1528	2155	904	1	0	0	0	0	29211	24	
19	0	0	0	0	0	1	15	2	2	2	189	812	850	1903	2539	2516	1495	2276	1206	5	0	0	0	0	13800	24	
20	0	0	0	0	0	1	175	211	2	2	2	2	2	3	138	236	2	2	2	1	0	0	0	0	782	24	
21	0	0	0	0	0	1	382	1314	409	2044	2577	3034	3380	3361	3264	3138	2863	2389	1550	281	0	0	0	0	29988	24	
22	0	0	0	0	0	145	1515	2443	2805	3067	3218	3292	3242	3261	3065	2999	2793	2354	1641	304	0	0	0	0	36132	24	
23	0	0	0	0	0	81	1406	2078	1988	2551	2731	3065	3066	2940	2546	1914	1245	385	15	1	0	0	0	0	26012	24	
24	0	0	0	0	0	1	764	1860	2403	2634	2732	2851	1953	2414	1250	2593	2338	2046	1084	56	0	0	0	0	26979	24	
25	0	0	0	0	0	14	344	484	338	1892	2621	2790	2493	2261	2495	1593	454	667	179	1	0	0	0	0	18626	24	
26	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	4	35	1	0	0	0	0	34	24	
27	0	0	0	0	0	1	2	32	115	913	1055	579	113	1091	261	150	222	940	728	121	0	0	0	0	6322	24	
28	0	0	0	0	0	44	1026	2091	2507	2745	2843	2786	2992	2631	2444	1976	1536	2069	1188	193	0	0	0	0	29071	24	
29	0	0	0	0	0	109	1329	1989	2442	2666	2709	2247	2265	1353	1064	1039	1016	966	661	74	0	0	0	0	21926	24	
30	0	0	0	0	0	17	490	1133	1535	1732	1791	2122	1715	1462	1261	1736	1026	1214	592	77	0	0	0	0	17953	24	
31	0	0	0	0	0	49	747	764	825	542	390	1504	602	13	2	4	24	2	86	2	0	0	0	0	5556	24	
AV	0	0	0	0	0	29	687	1227	1262	1566	1688	1713	1552	1593	1463	1440	1154	996	611	57	0	0	0	0	17037		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 16.

ATLANTA (GA TECH) YEAR 1981 MONTH 5

DIRECT (RG630) KJ/M2

D A Y	HOUR																								T O T L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	1	672	1679	717	331	367	47	7	24	201	210	1039	405	755%	16	0	0	0	0	6472.	24	
2	0	0	0	0	0	20	1125	1821	2060	2134	2199	2220	2227	2214	2168	2124	2014	1801	1304	114%	0	0	0	0	0	25545.	24
3	0	0	0	0	0	36	1211%	1244	1356	2023	2139	2172	2167	2008	1867	1901	605	313	51	13	0	0	0	0	0	18207.	24
4	0	0	0	0	0	31	628	965	1015	1614	1902	1701	618	1471	1220	1726	1394	1305	308	6	0	0	0	0	0	15904.	24
5	0	0	0	0	0	10	774%	1143	1254	904	502	901	1532	1239	1403	1292	9	28	48	2	0	0	0	0	0	11040.	24
6	0	0	0	0	0	1	13	6	6	6	5	5	5	5	5	5	5	5	5	5	2	0	0	0	0	83.	24
7	0	0	0	0	0	2	5	33	387	756	799	171	5	156	12	5	6	5	6	2	0	0	0	0	0	2352.	24
8	0	0	0	0	0	22	847	1480	1795	1922	1987	2022	2044	2037	2002	1596	1766	1482	1078	83%	0	0	0	0	0	22162.	24
9	0	0	0	0	0	39	767	1490	529	1511	1465	1028	345	440	28	9	13	293	4	0	0	0	0	0	0	7971.	24
10	0	0	0	0	0	2	6	6	7	7	7	7	9	172	227	17	48	13	20	3	0	0	0	0	0	550.	24
11	0	0	0	0	0	2	5	8	34	4	4	4	4	4	5	4	4	4	4	2	0	0	0	0	0	94.	24
12	0	0	0	0	0	13	726	1588	1775	2011	2092	2140	2173	2152	2116	2070	2009	1871	1437	209%	0	0	0	0	0	24381.	24
13	0	0	0	0	0	42	898	1538	1780	1902	1979	2016	1993	1694	1644	1567	1333	1282	982	83	0	0	0	0	0	20732.	24
14	0	0	0	0	0	27	765	1410	1321	900	431	803	667	392	165	1176	1507	679	670	3	0	0	0	0	0	10916.	24
15	0	0	0	0	0	81%	1067	1210	145	12	342	19	5	60	5	115	142	53	70%	37	0	0	0	0	0	3372.	24
16	0	0	0	0	0	72	481	62	207	107	31	643	189	793	918	132	21	5	129	3	0	0	0	0	0	3793.	24
17	0	0	0	0	0	2	6	84	59	448	855	9	130	315	274	1299	1015	398	383%	72%	0	0	0	0	0	5347.	24
18	0	0	0	0	0	41	879	1310	1488	1406	1771	1910	1973	1790	1839	1862	1019	1536	740	3	0	0	0	0	0	19566.	24
19	0	0	0	0	0	2	4%	5	5	5	109	436	509	1155	1562	1571	943	1529	893	7	0	0	0	0	0	8784.	24
20	0	0	0	0	0	2	153%	164	5	5	5	5	5	5	93	170	5	5	5	3	0	0	0	0	0	642.	24
21	0	0	0	0	0	2	249	800	246	1345	1660	1942	2149	2131	2081	2028	1914	1723	1289	279%	0	0	0	0	0	19839.	24
22	0	0	0	0	0	141%	1227	1735	1897	2067	2070	2113	2097	2113	2026	1982	1890	1699	1325	291%	0	0	0	0	0	24513.	24
23	0	0	0	0	0	73	1069	1384	1279	1643	1763	1983	1977	1916	1678	1278	854	262	18	3	0	0	0	0	0	17205.	24
24	0	0	0	0	0	3	650	1422	1696	1809	1828	1882	1309	1627	853	1758	1634	1506	887%	60	0	0	0	0	0	18916.	24
25	0	0	0	0	0	18	305%	380	245	1299	1759	1833	1595	1431	1613	1048	319	463	151	3	0	0	0	0	0	12487.	24
26	0	0	0	0	0	3	6	5	5	5	5	5	5	5	5	5	5	6	5%	3	0	0	0	0	0	73.	24
27	0	0	0	0	0	3	5	24	72	573	648	357	74	688	175	104	162	744	653%	123%	0	0	0	0	0	4410.	24
28	0	0	0	0	0	28	829	1481	1671	1772	1804	1753	1888	1662	1569	1307	1051	1491	982	189%	0	0	0	0	0	19476.	24
29	0	0	0	0	0	87%	1057	1421	1683	1787	1810	1515	1546	942	748	791%	855%	854%	629%	77%	0	0	0	0	0	15812.	24
30	0	0	0	0	0	16	409	887	1125	1244	1201	1391	1125	965	857	1196	734	913	492	66	0	0	0	0	0	12613.	24
31	0	0	0	0	0	34	624	572	581	375	255	1008	418	14	5	6	23	5	88%	4	0	0	0	0	0	4012.	24
AV	0	0	0	0	0	23	564	882	853	1028	1090	1099	993	1020	947	950	785	724	506	57	0	0	0	0	0	11523.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS.  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 & - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 17.

		ATLANTA (GA TECH)										YEAR 1981		MONTH 5		GLOBAL HORIZ. KJ/M2												
D	Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR	
1	0	0	0	0	0	0	1	227	1043	1504	1785	2065	1348	1139	1568	1823	1397	1672	774	354	8	0	0	0	0	0	16707.	24
2	0	0	0	0	0	0	4	352	1109	1852	2578	3173	3567	3737	3626	3270	2726	2001	1175	398	11	0	0	0	0	0	29578.	24
3	0	0	0	0	0	0	7	367	951	1530	2557	3161	3543	3706	3544	3204	2200	1470	783	260	7	0	0	0	0	0	27289.	24
4	0	0	0	0	0	0	5	278	841	1354	2276	2969	3272	2873	3429	2743	2532	1671	1100	265	9	0	0	0	0	0	25669.	24
5	0	0	0	0	0	0	4	299	949	1594	2041	2127	2810	3379	3222	2717	2311	868	394	189	7	0	0	0	0	0	22901.	24
6	0	0	0	0	0	0	3	124	428	727	1028	783	810	623	627	647	750	513	334	123	4	0	0	0	0	0	7522.	24
7	0	0	0	0	0	0	1	119	486	1196	2019	2241	1276	853	2060	1200	279	305	185	34	2	0	0	0	0	0	12255.	24
8	0	0	0	0	0	0	8	326	1047	1855	2582	3171	3544	3695	3592	3262	2560	1974	1142	430	18	0	0	0	0	0	29205.	24
9	0	0	0	0	0	0	10	279	1092	1407	2404	2996	2986	1925	2061	1687	1239	813	621	297	4	0	0	0	0	0	19871.	24
10	0	0	0	0	0	0	5	52	261	423	266	437	568	1064	1576	2009	1126	650	199	157	2	0	0	0	0	0	8796.	24
11	0	0	0	0	0	0	2	179	460	777	495	694	777	775	732	896	421	306	172	49	8	0	0	0	0	0	6741.	24
12	0	0	0	0	0	0	7	336	1086	1853	2621	3210	3594	3760	3643	3295	2751	2064	1275	477	22	0	0	0	0	0	29994.	24
13	0	0	0	0	0	0	11	344	1056	1807	2511	3109	3477	3510	3406	3081	2541	1797	1133	412	16	0	0	0	0	0	28315.	24
14	0	0	0	0	0	0	15	327	1021	1674	2026	2313	2561	2976	2593	1988	2401	1842	894	372	5	0	0	0	0	0	23014.	24
15	0	0	0	0	0	0	14	369	1007	1038	968	2010	1426	1129	1209	1265	1222	1143	491	149	22	0	0	0	0	0	13462.	24
16	0	0	0	0	0	0	25	406	606	1146	1390	1179	2511	2026	2988	2499	1206	769	190	177	12	0	0	0	0	0	17032.	24
17	0	0	0	0	0	0	15	118	680	1025	1811	2761	1151	1912	2155	2127	2531	1633	863	335	31	0	0	0	0	0	19197.	24
18	0	0	0	0	0	0	14	358	1036	1779	2284	3015	3395	3612	3428	3121	2670	1638	1185	378	6	0	0	0	0	0	27917.	24
19	0	0	0	0	0	0	2	146\$	290	631	996	1750	2532	2663	3221	3124	2619	1513	1212	420	11	0	0	0	0	0	21182.	24
20	0	0	0	0	0	0	6	235	738	354	326	566	475	516	886	1266	1319	429	170	61	3	0	0	0	0	0	7400.	24
21	0	0	0	0	0	0	2	315	1049	1066	2295	3005	3424	3750	3641	3294	2752	2036	1259	492	37	0	0	0	0	0	28420.	24
22	0	0	0	0	0	0	21	406	1129	1849	2560	3146	3546	3645	3571	3188	2690	1995	1214	487	35	0	0	0	0	0	29481.	24
23	0	0	0	0	0	0	25	439	1092	1723	2422	2933	3469	3597	3457	3051	2455	1633	782	271	21	0	0	0	0	0	27371.	24
24	0	0	0	0	0	0	9	346	1037	1769	2434	2943	3420	3017	3397	2067	2720	2024	1226	431	18	0	0	0	0	0	26857.	24
25	0	0	0	0	0	0	29	431	854	1130	2247	2980	3405	3479	3272	3091	2200	1179	992	336	20	0	0	0	0	0	25654.	24
26	0	0	0	0	0	0	20	148	242	398	417	582	589	415	420	221	157	265	293	148\$	3	0	0	0	0	0	4417.	24
27	0	0	0	0	0	0	2	119	483	1020	1784	2127	1561	1566	2404	1725	1348	934	1103	458	47	0	0	0	0	0	16681.	24
28	0	0	0	0	0	0	18	423	1086%1871	1871	2544	3047	3327	3727	3431	3065	2387	1600	1307	492	47	0	0	0	0	0	28371.	24
29	0	0	0	0	0	0	25	473	1109	1838	2501	3029	3114	3393	2749	2335	1907	1758	1062	446	44	0	0	0	0	0	25783.	24
30	0	0	0	0	0	0	17	324	910	1646	2266	2727	3084	2898	2770	2413	2390	1516	1093	412	50	0	0	0	0	0	24520.	24
31	0	0	0	0	0	0	17	356	817	1341	1650	1945	2889	2306	783	199	693	599	51	337	44	0	0	0	0	0	14026.	24
AV	0	0	0	0	0	0	11	293	839	1328	1874	2329	2503	2509	2560	2254	1890	1310	796	313	18	0	0	0	0	0	20827.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 18.

		ATLANTA (GA TECH)												YEAR 1981												MONTH 5			
		GLOBAL (RG630) KJ/M2																											
D A Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR			
																											HOURL		
1	0	0	0	0	0	1	149	662	904	1059	1216	784	655	910	1074	829	1004	468	227	6	0	0	0	0	0	9947.	24		
2	0	0	0	0	0	5	233	673	1157	1579	1925	2149	2229	2167	1949	1625	1200	719	248	9	0	0	0	0	0	17863.	24		
3	0	0	0	0	0	6	250	606	932	1540	1894	2118	2204	2121	1919	1318	888	478	166	6	0	0	0	0	0	16446.	24		
4	0	0	0	0	0	6	195	547	850	1418	1812	2003	1742	2075	1638	1555	993	676	160	6	0	0	0	0	0	15677.	24		
5	0	0	0	0	0	5	211	614	986	1241	1282	1696	2006	1909	1613	1385	509	247	133	9	0	0	0	0	0	13846.	24		
6	0	0	0	0	0	5	91	264	434	599	438	445	333	332	349	410	292	194	86	8	0	0	0	0	0	4280.	24		
7	0	0	0	0	0	4	85	295	713	1202	1308	734	479	1205	690	157	178	117	34	6	0	0	0	0	0	7207.	24		
8	0	0	0	0	0	8	223	667	1136	1558	1893	2108	2200	2141	1953	1536	1191	701	273	13	0	0	0	0	0	17600.	24		
9	0	0	0	0	0	12	190	686	833	1416	1758	1750	1100	1195	970	747	471	366	193	3	0	0	0	0	0	11690.	24		
10	0	0	0	0	0	8	46	159	244	151	239	305	593	896	1141	626	350	114	101	2	0	0	0	0	0	4987.	24		
11	0	0	0	0	0	5	122	282	463	283	394	436	433	417	510	243	185	116	47	13	0	0	0	0	0	3948.	24		
12	0	0	0	0	0	12	237	697	1132	1538	1928	2149	2237	2171	1937	1644	1238	781	304	16	0	0	0	0	0	18101.	24		
13	0	0	0	0	0	11	234	678	1125	1527	1857	2073	2147	2031	1833	1519	1076	697	258	10	0	0	0	0	0	17078.	24		
14	0	0	0	0	0	12	213	647	1021	1205	1364	1499	1731	1519	1154	1396	1069	534	221	2	0	0	0	0	0	13587.	24		
15	0	0	0	0	0	13	249	641	621	564	1184	823	648	701	734	721	683	300	102	16	0	0	0	0	0	7999.	24		
16	0	0	0	0	0	23	276	376	698	818	682	1474	1183	1711	1469	693	444	108	111	6	0	0	0	0	0	10072.	24		
17	0	0	0	0	0	14	78	403	603	1069	1634	657	1104	1250	1231	1482	958	507	240	22	0	0	0	0	0	11253.	24		
18	0	0	0	0	0	13	243	653	1086	1372	1804	1999	2103	1907	1799	1547	945	703	221	2	0	0	0	0	0	16478.	24		
19	0	0	0	0	0	1	81	161	359	567	1012	1494	1533	1851	1795	1510	869	717	251	7	0	0	0	0	0	12209.	24		
20	0	0	0	0	0	12	196	454	218	195	322	269	299	517	749	788	256	113	58	8	0	0	0	0	0	4453.	24		
21	0	0	0	0	0	10	221	671	632	1393	1858	2053	2254	2176	1953	1635	1214	762	309	26	0	0	0	0	0	17116.	24		
22	0	0	0	0	0	23	290	726	1170	1575	1909	2141	2203	2148	1918	1610	1205	750	312	25	0	0	0	0	0	18003.	24		
23	0	0	0	0	0	31	319	714	1092	1495	1791	2089	2159	2062	1824	1469	980	473	172	18	0	0	0	0	0	16689.	24		
24	0	0	0	0	0	13	243	673	1111	1500	1782	2040	1804	2035	1203	1623	1225	753	269	14	0	0	0	0	0	16288.	24		
25	0	0	0	0	0	31	234	545	699	1381	1799	2016	2053	1924	1821	1296	689	595	208	16	0	0	0	0	0	15368.	24		
26	0	0	0	0	0	26	112	160	243	244	324	363	207	203	107	82	153	190	100	11	0	0	0	0	0	2525.	24		
27	0	0	0	0	0	3	77	295	606	1076	1255	904	895	1384	997	777	541	672	295	38	0	0	0	0	0	9816.	24		
28	0	0	0	0	0	25	272	707	1141	1535	1916	1959	2190	2003	1793	1398	931	797	308	33	0	0	0	0	0	16908.	24		
29	0	0	0	0	0	25	321	710	1140	1521	1807	1836	2001	1611	1349	1113	1094	663	280	29	0	0	0	0	0	15499.	24		
30	0	0	0	0	0	20	222	580	1011	1356	1607	1795	1600	1593	1391	1395	878	660	255	35	0	0	0	0	0	14477.	24		
31	0	0	0	0	0	19	246	516	818	994	1155	1707	1345	436	110	383	343	34	215	33	0	0	0	0	0	8352.	24		
AY	0	0	0	0	0	13	201	531	812	1139	1387	1489	1476	1506	1323	1113	775	484	199	14	0	0	0	0	0	12444.			
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744		

25

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 19.

ATLANTA (GA TECH) YEAR 1981 MONTH 5

DIFFUSE HORIZ. KJ/M2

DAY	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	1	74	246	884	1366	1532	1245	1115	1458	1493	1147	751	579	214	11	0	0	0	0	12146.	24	
2	0	0	0	0	0	1	89%	183%	222	275	289	315	334	331	330	306	275	226	126	9	0	0	0	0	3310.	24	
3	0	0	0	0	0	3	141	361	390	337	328	372	406	576	679	1018	944	611	269	11	0	0	0	0	6446.	24	
4	0	0	0	0	0	3	150	389	495	525	504	849	1393%	1275%	1123%	692	488%	440	224	18	0	0	0	0	9067.	24	
5	0	0	0	0	0	3	159	416	577	1066	1408	1490	1095	1423%	946	940	893	413	205	15	0	0	0	0	11054.	24	
6	0	0	0	0	0	3	124	427	716	1015	790	816	630	641	655	764	538	354	142	8	0	0	0	0	7634.	24	
7	0	0	0	0	0	2	121	463	852	1174	1213	1051	850	1219	1191	295	312	191	41	2	0	0	0	0	9575.	24	
8	0	0	0	0	0	4	142	310	386	461	523	555	542	530	519	722	444	347	198	22	0	0	0	0	5706.	24	
9	0	0	0	0	0	8	119	327	883	618%	911%	1364	1356	1363	1634	1294	833	633	264	11	0	0	0	0	11619.	24	
10	0	0	0	0	0	5	51	256	415	265	442	567	1043	1394	1656	1111	624	231	193	6	0	0	0	0	8172.	24	
11	0	0	0	0	0	3	182	453	730	489	677	758	755	712	875	417	308	174	52	9	0	0	0	0	6594.	24	
12	0	0	0	0	0	6	167	286	366	387	414	415	379	401	405	362	299	232	141	17	0	0	0	0	4277.	24	
13	0	0	0	0	0	7	146	276	354	419	486	516	560	873	843	743	644	457	213	26	0	0	0	0	6561.	24	
14	0	0	0	0	0	14	170	335	628	1048	1702	1322	1878	1947	1727	1066	520	599	227	17	0	0	0	0	13209.	24	
15	0	0	0	0	0	9	152	452	899	937	1515	1366	1098	1092	1237	1082	1003	468	143	20	0	0	0	0	11474.	24	
16	0	0	0	0	0	17	297	552	941	1208	1116	1475	1708	1688	1310	1042	759	204	165	15	0	0	0	0	12499.	24	
17	0	0	0	0	0	14	111	624	947	1273	1647	1137	1681	1669	1732	1081	778	644	342	41	0	0	0	0	13722.	24	
18	0	0	0	0	0	12	171	372	559	728	691	609	584	746	601	515	781%	343	206%	23	0	0	0	0	6945.	24	
19	0	0	0	0	0	2	153%	305	643	991	1548	1769	1793	1363	889	708	639	323	177	29	0	0	0	0	11332.	24	
20	0	0	0	0	0	10	261	647	358	331	565	475	516	876	1131	1129	439	185	75	3	0	0	0	0	7002.	24	
21	0	0	0	0	0	2	224	575	805	782	753	533	427	415	492	369	329	279	175	30	0	0	0	0	6095.	24	
22	0	0	0	0	0	13	132	219	283	336	389	444	487	470	505	437	364	287	170	29	0	0	0	0	4563.	24	
23	0	0	0	0	0	19	125	305	618	546	587	577	610	654	820	1019	897	631	252	37	0	0	0	0	7757.	24	
24	0	0	0	0	0	8	182	336	421	527	606	734	1115	1096	1013	772	657	419	220	33	0	0	0	0	8138.	24	
25	0	0	0	0	0	29	363	688	925	839	740	774	1034%	1098%	886	968	923	723	269	37	0	0	0	0	10301.	24	
26	0	0	0	0	0	24	156	248	401	422	586	709	450	453	219	191	302	315	160%	5	0	0	0	0	4656.	24	
27	0	0	0	0	0	8	150	502	961	1094	1226	987	1461	1321	1493	1225	812	723	315	51	0	0	0	0	12335.	24	
28	0	0	0	0	0	18	203	343%	443	539	590	672	753	862	867	854	665	446	243	48	0	0	0	0	7545.	24	
29	0	0	0	0	0	18	220	350	460	534	689	582	1151	1423	1363	1133	1156	673	324	57	0	0	0	0	10556.	24	
30	0	0	0	0	0	21	248	507	810	988	1214	1087	1228	1373	1291	1064	911	619	322	71	0	0	0	0	11752.	24	
31	0	0	0	0	0	21	236	562	892	1259	1612	1492	1730	825	201	710	604	76	337	55	0	0	0	0	10614.	24	
AV	0	0	0	0	0	10	170	397	621	735	880	886	989	1036	970	812	642	415	207	25	0	0	0	0	8795.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 20.

ATLANTA (GA TECH) YEAR 1981 MONTH 5																												
LAT. TILTED KJ/M2																												
D A Y	HOUR																								TOTL	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	2	96	704	1266	1599	1897	1191	953	1333	1651	1249	1483	637	212%	6	0	0	0	0	0	14280	24	
2	0	0	0	0	0	2	144	751	1582	2385	3070	3517	3703	3574	3151	2523	1733	857	176	5	0	0	0	0	0	27174	24	
3	0	0	0	0	0	4	175%	662	1284	2339	3034	3482	3580	3523	3144	2037	1281	634	206%	5	0	0	0	0	0	25489	24	
4	0	0	0	0	0	3	141	589	1119	2065	2832	3246	2809	3390	2597	2371	1453	826	173%	7	0	0	0	0	0	23612	24	
5	0	0	0	0	0	3	154%	713	1373	1892	1976	2655	3244	3074	2626	2134	747	343	149	7	0	0	0	0	0	21088	24	
6	0	0	0	0	0	3	94	369	601	852	637	668	516	543	538	635	446	275	99	5	0	0	0	0	0	6332	24	
7	0	0	0	0	0	3	98	412	1059	1840	2092	1139	722	1849	1083	233	250	153	25	4	0	0	0	0	0	10963	24	
8	0	0	0	0	0	5	118	711	1550	2342	3005	3430	3603	3479	3098	2330	1681	809	203	10	0	0	0	0	0	26403	24	
9	0	0	0	0	0	4	110	766	1214	2180	2818	2846	1832	1896	1455	1104	679	518	198%	5	0	0	0	0	0	17625	24	
10	0	0	0	0	0	4	33	206	337	216	368	465	926	1407	1904	975	565	157	126	5	0	0	0	0	0	7594	24	
11	0	0	0	0	0	4	146%	393	672	397%	603	647	686	638	774	385	265	146	49	9	0	0	0	0	0	5814	24	
12	0	0	0	0	0	6	163%	721	1512	2342	3003	3438	3621	3494	3102	2477	1708	861	188	10	0	0	0	0	0	26647	24	
13	0	0	0	0	0	7	149	697	1480	2238	2894	3313	3458	3230	2868	2263	1484	803	194	11	0	0	0	0	0	25088	24	
14	0	0	0	0	0	10	154%	678	1372	1804	2079	2409	2788	2398	1781	2160	1548	659	202%	8	0	0	0	0	0	20050	24	
15	0	0	0	0	0	8	151	680	842	799	1789	1246	986	1080	1066	1078	958	409	117	14	0	0	0	0	0	11222	24	
16	0	0	0	0	0	15	266%	484	964	1226	1018	2315	1815	2676	2236	1043	661	165	120%	10	0	0	0	0	0	15016	24	
17	0	0	0	0	0	10	89	552	867	1555	2453	996	1705	1977	1872	2197	1282	622	241%	19	0	0	0	0	0	16446	24	
18	0	0	0	0	0	9	161%	672	1427	2011	2771	3196	3429	3229	2861	2351	1336	797	183	6	0	0	0	0	0	24438	24	
19	0	0	0	0	0	4	118%	232	530	841	1519	2379	2496	3071	2945	2318	1222	807	190	12	0	0	0	0	0	18682	24	
20	0	0	0	0	0	6	202%	576	297	272	476	397	442	771	1094	1166	361	143	46	6	0	0	0	0	0	6256	24	
21	0	0	0	0	0	5	195%	709	902	1993	2740	3196	3536	3411	3014	2405	1637	823	192	15	0	0	0	0	0	24770	24	
22	0	0	0	0	0	9	145%	692	1456	2210	2845	3286	3402	3224	2915	2351	1601	792	186	13	0	0	0	0	0	25226	24	
23	0	0	0	0	0	12	176%	677	1332	2106	2717	3268	3406	3241	2313	2151	1348	615	213%	17	0	0	0	0	0	24094	24	
24	0	0	0	0	0	6	163%	662	1397	2109	2669	3191	3328	3158	1889	2350	1614	814	195	11	0	0	0	0	0	23058	24	
25	0	0	0	0	0	19	282%	612	933	1936	2715	3148	3250	3041	2784	1928	982	714	231%	17	0	0	0	0	0	22591	24	
26	0	0	0	0	0	14	110%	198	342	345	486	581	352	358	134	129	217	254	130%	6	0	0	0	0	0	3707	24	
27	0	0	0	0	0	5	193	422	880	1545	1895	1371	1374	2186	1509	1183	763	801	249%	24	0	0	0	0	0	14309	24	
28	0	0	0	0	0	10	165%	802	1439	2163	2755	3080	3471	3166	2754	2039	1295	877	231%	23	0	0	0	0	0	24270	24	
29	0	0	0	0	0	11	200%	703	1440	2142	2728	2885	3158	2539	2116	1650	1435	770	259%	28	0	0	0	0	0	22064	24	
30	0	0	0	0	0	11	184%	608	1303	1946	2433	2848	2688	2543	2181	2085	1257	791	240%	33	0	0	0	0	0	21150	24	
31	0	0	0	0	0	12	199%	613	1127	1422	1737	2665	2083	641	161	641	539	46	273%	39%	0	0	0	0	0	12198	24	
AV	0	0	0	0	0	7	152	589	1093	1649	2131	2339	2354	2395	2068	1676	1091	573	177	13	0	0	0	0	0	18311		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 21.

ATLANTA (GA TECH) YEAR 1981 MONTH 5  
INFRARED 10 KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	122	122	123	120	119	120	129	141	141	139	138	141%	146%	144	140	139	136	136%	133%	133	141	144	131	118	3194	24
2	116	114	113	111	110	109	110	110	112%	114	117	116%	124%	125%	119	124	127	131	130	121	123%	116	115	115	2822	24
3	115	118	117	116	116	116	125	131	131	129	126	115	126%	129%	123	130	136	137	134	127	125	122	122	121	2986	24
4	121	121	120	118	116	118	126	134	135	137%	133	130%	140%	133%	139%	134	139	144	140	134	133	132	131	129	3137	24
5	127	125	125%	124	124	124	134	141	148	143	144	138	136	140	140	146	156%	157	155	147	142	139	141	144	3338	24
6	144	144	146	145	145	144	148	151	152	152	152	150	150	147	146	146	148	149	147	142	150%	151%	137	126	3510	24
7	128	124	128	136	138	139	142	144	141	141	142	150%	153	150	154	151	147	146	144	142	140	134	124	121	3360	24
8	131	122	113	112	111	112	123	129	130%	125%	117	124%	111%	113%	116%	123	127	129%	130	123	121	120	119	118	2899	24
9	117	117	116	115	114	117	127	137	140	134	130	132	137	134	151	152	156%	151	149%	133	133	140	143%	139%	3213	24
10	128	126	125	129	138	143	147	148	148	150	151	152	150	143	146	151	155%	152	150	143	144	144	137	143	3453	24
11	140	138	136	129	117	132	136	138	139	138	141	138	137	139	134	138	135	134	132	128	125	127	126	127	3203	24
12	126	123	106	104	102	109	116	121	121	115	109	104%	103%	107%	112%	116	121	124	123	113%	109%	108	107	106	2706	24
13	106	105	107	107	108	110	121	129	132	130	123	132%	135%	121%	125%	130	134	133	136	127	125	126	124	121	2950	24
14	121	120	121	118	118	120	129	135	136	136	137	130	129	133	139	135	136	146	138	135	140	143	136	129	3164	24
15	117	113	110	109	107	109	120	126	133	135	126	135	135	134	135	134	133	134	132	112	107	107	106	104	2912	24
16	103	102	103	105	103	106	120	127	129	131	134	126	129	123	125	134	140	143	139	128	134	132	132	129	2979	24
17	137	136	129	135	134	133	137	136	140	137	131	141	139	138	139	132	135	137	136	128	124	123	122	122	3204	24
18	121	120	119	118	116	115	126	134	137	135	131	142%	126%	131%	133%	136	144	143	143	139	141	149	140	135	3175	24
19	128	129	134	141	139	138	150%	139	140	139	138	134	134	145%	129	133%	141	140	140	134	131	132	144	140	3295	24
20	144	132	140	141	142	136	137	136	143	142	142	142	142	142	139	137	140	140	139	136	135	134	133	131	3320	24
21	131	131	131	133	133	133	131	129	127	121	114	103%	129%	106%	111%	118%	124	123	129	120	132%	114	113	112	2951	24
22	111	110%	120%	109	107	110	120	129	124	125	119%	113%	112%	134%	136%	124%	129	133	133	125	121%	121%	120%	118%	2904	24
23	117%	115	116%	113	112%	115	127	133	136%	131	127%	120%	118%	121%	127%	134	138	140	139	136	134	134	132	130	3045	24
24	123%	123%	125%	125	123%	122	130	138	138	136	131	143%	151%	150%	141	135	139	141	140	133	130	129	127	126%	3200	24
25	127%	125%	126%	123	124	129	137	143	143	139	133	127%	126%	128%	130%	137	144	143	140	138	135	134	134	133	3198	24
26	136	136	135	137	138	138	141	144	145	146	147	147	148	148	149	150	150	149	159%	156%	145	146	145	144	3478	24
27	145	143	146	140	138	141	144	149	147	144%	142	142	145	137	146	148	145	142	139	131	129	127	125	123	3364	24
28	121	120	119	118	118	119	124	137%	135	132	127	123%	141%	120%	126%	134	136	133	135	129	126	124	122	121	3045	24
29	119	118	116	115	114	118	129	135	136	134	131	131%	129%	137	143	146	150	143	147	142	139	144	150	139	3211	24
30	138	140	141	137	136	137	144	151	153	152	151	143	148	149	159%	151	156	154	152	145	140	161%	138	138	3514	24
31	136	135	136%	136%	136	136	145	149	151	153	154	149	153	158	151	153	153	151	147	141	145	142	139	141	3489	24
AV	126	124	124	123	122	124	131	136	137	136	134	133	135	134	135	137	140	141	140	133	132	132	130	127	3169	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS.  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

28

Table 22.

		ATLANTA (GA TECH)												YEAR 1981		MONTH 5		ULTRAVIOLET KJ/M2											
D A Y	HOUR												T O T L	H R															
	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	13	45	75	95	112	80	70	91	99	75	77	40	17	1	0	0	0	0	890.	24			
2	0	0	0	0	0	0	14	45	86	125	160	183	193	185	161	129	90	59	19	2	0	0	0	0	1440.	24			
3	0	0	0	0	0	0	15	43	76	125	159	181	189	176	153	106	71	39	16	2	0	0	0	0	1351.	24			
4	0	0	0	0	0	1	15	40	66	102	137	150	134	154	127	114	76	45	16	2	0	0	0	0	1176.	24			
5	0	0	0	0	0	0	13	41	72	96	104	128	159	150	126	100	49	22	11	1	0	0	0	0	1072.	24			
6	0	0	0	0	0	1	8	24	42	58	48	53	45	45	45	50	36	23	10	1	0	0	0	0	491.	24			
7	0	0	0	0	0	0	9	29	68	106	125	78	57	114	73	23	23	15	5	1	0	0	0	0	724.	24			
8	0	0	0	0	0	1	15	46	87	127	161	182	189	180	158	120	87	50	20	2	0	0	0	0	1427.	24			
9	0	0	0	0	0	1	16	50	76	125	157	159	118	113	96	74	49	37	16	2	0	0	0	0	1087.	24			
10	0	0	0	0	0	1	4	17	27	21	32	42	69	93	114	70	45	15	10	1	0	0	0	0	559.	24			
11	0	0	0	0	0	0	12	29	48	35	48	53	54	50	60	31	23	13	5	1	0	0	0	0	461.	24			
12	0	0	0	0	0	1	17	51	92	134	168	191	199	190	167	133	93	54	22	3	0	0	0	0	1513.	24			
13	0	0	0	0	0	1	16	47	83	129	155	174	180	164	145	116	80	48	20	3	0	0	0	0	1351.	24			
14	0	0	0	0	0	1	16	44	79	103	117	132	152	132	104	114	83	41	20	3	0	0	0	0	1141.	24			
15	0	0	0	0	0	1	17	46	59	59	114	86	70	74	77	68	61	23	9	2	0	0	0	0	770.	24			
16	0	0	0	0	0	1	16	33	63	80	71	138	114	149	125	69	46	14	10	2	0	0	0	0	933.	24			
17	0	0	0	0	0	1	9	38	57	94	138	68	105	116	112	120	78	44	20	3	0	0	0	0	1002.	24			
18	0	0	0	0	0	1	18	48	84	112	146	167	179	168	149	122	77	50	20	3	0	0	0	0	1343.	24			
19	0	0	0	0	0	0	10 <sup>s</sup>	19	40	61	101	143	146	171	162	130	79	55	23	3	0	0	0	0	1142.	24			
20	0	0	0	0	0	1	15	41	23	23	41	35	37	56	73	73	28	13	6	0	0	0	0	0	466.	24			
21	0	0	0	0	0	0	16	49	67	120	156	181	195	187	165	132	93	55	23	3	0	0	0	0	1442.	24			
22	0	0	0	0	0	1	18	50	84	120	153	174	175	170	147	122	87	50	22	4	0	0	0	0	1377.	24			
23	0	0	0	0	0	1	18	47	78	113	139	168	175	166	142	111	75	40	17	3	0	0	0	0	1293.	24			
24	0	0	0	0	0	1	17	46	80	113	140	166	148	153	111	121	85	51	22	4	0	0	0	0	1263.	24			
25	0	0	0	0	0	1	19	40	61	108	143	167	171	161	147	106	64	47	19	3	0	0	0	0	1258.	24			
26	0	0	0	0	0	1	9	16	26	29	40	49	33	34	29	15	21	23	12 <sup>s</sup>	1	0	0	0	0	329.	24			
27	0	0	0	0	0	1	12	28	61	98	122	94	100	139	100	79	56	51	22	4	0	0	0	0	965.	24			
28	0	0	0	0	0	2	19	51	90	128	159	176	191	177	153	117	81	55	23	4	0	0	0	0	1425.	24			
29	0	0	0	0	0	2	21	50	85	118	145	155	167	140	121	96	71	43	21	4	0	0	0	0	1238.	24			
30	0	0	0	0	0	2	17	44	78	111	134	156	148	143	122	112	75	59	21	4	0	0	0	0	1218.	24			
31	0	0	0	0	0	2	18	41	69	85	101	142	118	50	19	47	38	7	14	3	0	0	0	0	752.	24			
AV	0	0	0	0	0	1	15	40	67	95	120	131	132	132	115	93	64	38	16	2	0	0	0	0	1061.				
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744			

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 FLAGS:  
 Z - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 # - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 23.

		ATLANTA (GA TECH) YEAR 1981 MONTH 5																									
		AVAILABLE SUNSHINE %																									
D A Y	HOUR																								AVG	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0%	47	100	77	39	33	3	0	0	22	19	81	32	68	0%	0	0	0	0	39.	24	
2	0	0	0	0	0	0%	93	100	100	100	100	100	100	100	100	100	100	100	100	20%	0	0	0	0	96.	24	
3	0	0	0	0	0	0%	88	100	100	100	100	100	100	100	100	76	64	24	0	0%	0	0	0	0	78.	24	
4	0	0	0	0	0	0%	54	100	100	100	100	100	45%	97%	86	100	84	98	12	0%	0	0	0	0	80.	24	
5	0	0	0	0	0	0%	66	94	96	94	32	87	97	85	88	81	0	0	0	0%	0	0	0	0	61.	24	
6	0	0	0	0	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0	0	0	0.	24	
7	0	0	0	0	0	0%	0	2	34	63	49	9	0	12	0	0	0	0	0	0%	0	0	0	0	13.	24	
8	0	0	0	0	0	0%	70	100	100	100	100	100	100	100	100	100	100	99	94	0%	0	0	0	0	93.	24	
9	0	0	0	0	0	0%	82	100	39	97	90	61	23	25	0	0	0	24	0%	0	0	0	0	0	40.	24	
10	0	0	0	0	0	0%	0	0	0	0	0	0	0	16	19	1	3	1	1	0%	0	0	0	0	3.	24	
11	0	0	0	0	0	0%	0	0	3	0	0	0	0	0	0	0	0	0	0	0%	0	0	0	0	0.	24	
12	0	0	0	0	0	0%	63	99	96	100	100	100	100	100	100	100	100	100	100	43%	0	0	0	0	93.	24	
13	0	0	0	0	0	0%	76	100	100	100	100	100	100	100	100	100	100	100	99	0%	0	0	0	0	93.	24	
14	0	0	0	0	0	0%	66	100	97	80	47	65	64%	39%	4	76	90	56	68	0%	0	0	0	0	62.	24	
15	0	0	0	0	0	0%	92	88	12	0	21	1	0	5	0	8	9	4	0	0%	0	0	0	0	17.	24	
16	0	0	0	0	0	0%	44	1	11	10	3	42	12	55	60	12	0	0	13	0%	0	0	0	0	19.	24	
17	0	0	0	0	0	0%	0	0	0	26	83	0	8	28	26	86	95	33	24	0%	0	0	0	0	30.	24	
18	0	0	0	0	0	0%	74	100	100	100	100	100	100	100	100	100	66	100	62	0%	0	0	0	0	87.	24	
19	0	0	0	0	0	0%	0	0	0	0	4	66	68	90	92	87	58	93	70	0%	0	0	0	0	46.	24	
20	0	0	0	0	0	0%	2	13	0	0	0	0	0	0	7	14	0	0	0	0%	0	0	0	0	3.	24	
21	0	0	0	0	0	0%	26	73	21	74	86	64	100	100	100	100	100	100	100	38%	0	0	0	0	79.	24	
22	0	0	0	0	0	10%	100	100	100	100	100	100	100	100	100	100	100	100	100	46%	0	0	0	0	95.	24	
23	0	0	0	0	0	0%	99	100	97	100	100	100	100	100	100	100	91	19	0	0%	0	0	0	0	79.	24	
24	0	0	0	0	0	0%	58	100	100	100	98	100	74	89	48	99	100	100	66	0%	0	0	0	0	81.	24	
25	0	0	0	0	0	0%	0	28	14	98	100	100	100	100	100	86	30	47	0	0%	0	0	0	0	57.	24	
26	0	0	0	0	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0	0	0	0.	24	
27	0	0	0	0	0	0%	0	1	5	37	41	23	6	40	12	7	11	65	60	0%	0	0	0	0	22.	24	
28	0	0	0	0	0	0%	69	100%	99	98	97	92	99	93	89	76	65	100	98	8%	0	0	0	0	84.	24	
29	0	0	0	0	0	0%	89	100	100	100	100	87	93	80	59	58	88	100	41	0%	0	0	0	0	73.	24	
30	0	0	0	0	0	0%	19	100	100	100	81	84	71	76	64	88	62	84	28	0%	0	0	0	0	69.	24	
31	0	0	0	0	0	0%	54	60	53	28	15	85	35	0	0	0	0	0	0	0%	0	0	0	0	23.	24	
AV	0	0	0	0	0	0	46	63	57	63	61	61	55	59	54	57	52	50	40	5	0	0	0	0	52.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

-----  
 FLAGS  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 48.

Table 24.

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 6	
		DIRECT NORMAL KJ/M2																											
D A Y	1	2	3	4	5	6	7	8	9	10	11	12	HOUR								21	22	23	24	TOTL	HR			
													13	14	15	16	17	18	19	20									
1	0	0	0	0	0	1	2	2	2	5	2	14	2	59	312	689	118	2	2	2	0	0	0	0	1216	24			
2	0	0	0	0	0	1	623	516	135	2044	1574	297	180	155	1213	258	2	2	2	0	0	0	0	7009	24				
3	0	0	0	0	0	1	2	2	29	25	391	1288	1705	1242	1874	2705	2302	791	1157	235	0	0	0	0	13749	24			
4	0	0	0	0	0	33	1085	1173	1128	2260	1690	1865	2261	2065	2864	2035	2369	270	474	6	0	0	0	0	21578	24			
5	0	0	0	0	0	1	7	10	113	36	303	275	1343	1542	807	1535	1638	565	9	2	0	0	0	0	8184	24			
6	0	0	0	0	0	1	7	2	65	799	1266	568	592	1605	1506	1851	1133	944	178	13	0	0	0	0	10531	24			
7	0	0	0	0	0	1	4	12	629	901	533	324	1099	1094	551	734	37	165	711	141	0	0	0	0	8937	24			
8	0	0	0	0	0	1	2	34	184	47	347	759	1799	2215	1939	1233	899	1091	504	106	0	0	0	0	11161	24			
9	0	0	0	0	0	1	200	417	661	629	1320	1472	1207	1791	2369	1793	1233	1163	778	193	0	0	0	0	15226	24			
10	0	0	0	0	0	1	5	665	643	614	1320	2211	1898	2093	860	2333	1207	2087	519	50	0	0	0	0	16505	24			
11	0	0	0	0	0	1	242	1103	1454	1901	1703	1200	824	307	67	40	28	2	14	2	0	0	0	0	8889	24			
12	0	0	0	0	0	1	2	2	14	232	2495	1198	1906	2066	1935	703	479	296	206	2	0	0	0	0	11588	24			
13	0	0	0	0	0	1	475	908	1055	271	448	1143	2	150	22	31	391	1287	425	105	0	0	0	0	6714	24			
14	0	0	0	0	0	25	709	1489	1979	2332	2552	2687	2765	2760	2654	2491	2302	1921	1168	155	0	0	0	0	27989	24			
15	0	0	0	0	0	31	850	1719	2126	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	12			
16	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	9		
17	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	9		
18	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	9		
19	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	9		
20	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	9		
21	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	9		
22	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	9		
23	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	0	0	0	0	99999	14		
24	0	0	0	0	0	100	1064	1795	2245	2451	2639	2680	2475	708	375	318	187	919	315	16	0	0	0	0	18286	24			
25	0	0	0	0	0	22	420	625	6	5	775	679	1887	1997	1956	1736	995	579	92	3	0	0	0	0	11777	24			
26	0	0	0	0	0	25	611	1219	1640	2119	2547	2918	3075	3062	2758	2578	2666	2519	1931	609	0	0	0	0	30276	24			
27	0	0	0	0	0	43	398	1171	1589	2547	2903	2979	2886	2794	1932	1912	1621	1583	562	200	0	0	0	0	25121	24			
28	0	0	0	0	0	2	2	224	858	725	1551	2018	2385	2081	1712	1483	1682	1412	769	144	0	0	0	0	17046	24			
29	0	0	0	0	0	49	802	1495	2091	2444	2597	2588	2669	2552	2571	2397	915	1065	315	47	0	0	0	0	24597	24			
30	0	0	0	0	0	19	573	1264	1396	990	1834	1780	1808	2014	976	1239	1229	843	551	70	0	0	0	0	16685	24			
AV	0	0	0	0	0	168	3675	7205	8533	11133	14668	14733	16568	16368	14918	15055	11933	10018	5705	1218	0	0	0	0	15181	8			
HR	30	30	30	30	30	22	22	22	21	21	21	21	21	21	21	22	22	22	22	22	30	30	30	30	593				

31

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 25.

		ATLANTA (GA TECH)												YEAR 1981												MONTH 8		
		DIRECT (RG630) KJ/M2																										
D A Y		HOUR																								T O T A L	H R	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	3	5	5	5	7	5	13	7	49	239	528%	95	5	5	4	0	0	0	0	974.	24		
2	0	0	0	0	0	3	549%	380	75	1258	971	176	120	90	718	157	5	5	5	12	0	0	0	0	4522.	24		
3	0	0	0	0	0	3	5	5	21	18	232	764	1018	741	1132	1658	1451	526	865	221%	0	0	0	0	8660.	24		
4	0	0	0	0	0	30	831	790	711	1411	1050	1157	1464	1368	1752	1255	1523	189	398	11	0	0	0	0	13940.	24		
5	0	0	0	0	0	3	9	12	79	27	178	159	830	964	526	1025	1140	439%	12	4	0	0	0	0	5406.	24		
6	0	0	0	0	0	3	9	5	41	488	768	345	366	1018	961	1207	767	680	141	16	0	0	0	0	6815.	24		
7	0	0	0	0	0	3	6	12	420	579	329	203	694	723	360	506	28	123	568	141%	0	0	0	0	4694.	24		
8	0	0	0	0	0	3	5	25	123	30	223	488	1135	1404	1253	803	615	788	451%	116%	0	0	0	0	7461.	24		
9	0	0	0	0	0	3	172	315	467	428	861	971	783	1139	1518	1176	908	912	878%	200%	0	0	0	0	10530.	24		
10	0	0	0	0	0	3	8	502	440	414	821	1346	1161	1281	569	1506	784	1392	391	54	0	0	0	0	10672.	24		
11	0	0	0	0	0	3	205	837	1023	1274	1110	774	541	200	47	32	23	5	17	4	0	0	0	0	6094.	24		
12	0	0	0	0	0	3	5	5	11	147	1559	743	1164	1270	1251	477	328	163%	136	4	0	0	0	0	7265.	24		
13	0	0	0	0	0	3	347	616	670	170	276	693	5	59%	9	10	178%	797	315	90	0	0	0	0	4238.	24		
14	0	0	0	0	0	31	593%	1058	1299	1476	1586	1660	1692	1701	1653	1583	1478	1277	857	147	0	0	0	0	18091.	24		
15	0	0	0	0	0	34	656	1167	1367	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	12		
16	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	9		
17	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	9		
18	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	9		
19	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	9		
20	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	9		
21	0	0	0	0	0	9999	9999	1067%	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	9		
22	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	9		
23	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999.	14		
24	0	0	0	0	0	106%	876	1297	1512	1600	1681	1702	1564	472	261	233	152	779%	306%	20	0	0	0	0	12560.	24		
25	0	0	0	0	0	30	412%	550%	7	6	523	458	1340	1454	1428	1296	773	510%	80%	7	0	0	0	0	8875.	24		
26	0	0	0	0	0	22	550%	993	1236	1456	1657	1832	1924	1931	1780	1698	1780	1719	1440	551%	0	0	0	0	20568.	24		
27	0	0	0	0	0	2*	290%	915	1136	1716	1870	1895	1844%	1793	1256	1290	1127	1167	494%	198%	0	0	0	0	17250.	22		
28	0	0	0	0	0	4	5	190	674	526	1065	1370	1601	1404	1172	1057	1248	1134%	707%	148%	0	0	0	0	12304.	24		
29	0	0	0	0	0	59%	730%	1183	1501	1665	1732	1723	1778	1705	1734	1655	663	853%	291%	62	0	0	0	0	17333.	24		
30	0	0	0	0	0	25	544%	1053	1091	742	1366	1300	1329	1481	752%	993%	1039%	849%	544%	79%	0	0	0	0	13185.	24		
AV	0	0	0	0	0	18%	310%	542%	597%	735%	948%	942%	1065%	1059%	970%	999%	812%	723%	456%	117%	0	0	0	0	10291.	3		
HR	30	30	30	30	30	21	21	22	21	21	21	21	21	21	21	22	22	22	22	22	30	30	30	30	591			

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 # - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 @ - OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 26.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 6					
		GLOBAL HORIZ. KJ/M2																									
D A Y	H O U R	HOUR																								T O T L	H R
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	4	111	268	329	765	1249	1475	630	1711	1567	1905	963	358	118	11	0	0	0	0	11461.	24	
2	0	0	0	0	0	12	374	618	1195	2298	2732	1762	1377	1913	2775	701	335	329	161	51	0	0	0	0	16834.	24	
3	0	0	0	0	0	9	112	263	616	942	1472	2630	2802	2558	2846	2602	1982	895	637	56	0	0	0	0	20621.	24	
4	0	0	0	0	0	24	432	1050	1416	2448	2549	2880	3288	3071	3279	2447	2209	590	411	17	0	0	0	0	26111.	24	
5	0	0	0	0	0	8	242	519	981	1163	1688	2104	2772	3149	2148	2242	1939	906	65%	3	0	0	0	0	20129.	24	
6	0	0	0	0	0	18	182	398	676	1775	2475	2315	2205	2949	2384	2307	1454	931	253	26	0	0	0	0	20348.	24	
7	0	0	0	0	0	5	210	546	1369	1900	2162	1916	2677	2595	1857	1713	464	747	557	70	0	0	0	0	18987.	24	
8	0	0	0	0	0	2	83	497	1036	1230	1767	2094	3149	3354	2971	1963	1374	1101	458	54	0	0	0	0	21134.	24	
9	0	0	0	0	0	14	371	816	1521	1664	2474	2913	2705	2961	3189	2387	1649	1098	458	82	0	0	0	0	24284.	24	
10	0	0	0	0	0	10	164	902	1230	1696	2269	3219	3014	3066	1814	2558	1471	1321	425	61	0	0	0	0	23219.	24	
11	0	0	0	0	0	14	274	1035	1685	2376	2511	3009	2772	1592	800	1070	844	194	111	9	0	0	0	0	18295.	24	
12	0	0	0	0	0	11	134	379	819	1448	2995	2286	3014	3121	2853	1411	794	668	300	5	0	0	0	0	20239.	24	
13	0	0	0	0	0	17	372	903	1435	1293	1957	2537	547	1700	1560	1471	1413	1238	462	86	0	0	0	0	16992.	24	
14	0	0	0	0	0	22	360	1009	1727	2403	2955	3348	3514	3429	3121	2609	1990	1276	547	59	0	0	0	0	28368.	24	
15	0	0	0	0	0	21	373	1034	1659	2399	2999	3399	3599	3499	3199	2699	1999	1276	547	59	0	0	0	0	27029.	24	
16	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	26456.	24
17	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	26222.	24
18	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	27360.	24
19	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	24
20	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	24
21	0	0	0	0	0	0	9999	9999	1061	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	24
22	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	25848.	24
23	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	27544.	24
24	0	0	0	0	0	0	33	446	1039	1722	2353	2888	3231	3281	1559	1201	893	853	1487	431	33	0	0	0	0	21455.	24
25	0	0	0	0	0	0	32	305	788	950	1287	2448	2728	3201	3200	2914	2467	1561	919	337	35	0	0	0	0	23172.	24
26	0	0	0	0	0	0	16	318	921	1610	2327	2938	3409	3639	3581	3235	2664	2134	1415	657	93	0	0	0	0	28957.	24
27	0	0	0	0	0	0	19	315	955	1587	2461	3058	3440	3481	3483	2833	2354	1590	1183	367	69	0	0	0	0	26974.	24
28	0	0	0	0	0	0	4	199	637	1481	1909	2820	3316	3547	3250	2742	2231	1880	1208	521	73	0	0	0	0	25817.	24
29	0	0	0	0	0	0	19	344	997	1723	2425	2930	3305	3466	3326	3143	2706	1320	1078	361	53	0	0	0	0	27245.	24
30	0	0	0	0	0	0	13	314	921	1558	2133	2765	3137	3355	3271	2203	2269	1861	1116	491	72	0	0	0	0	25479.	24
AV	0	0	0	0	0	15%	274%	759%	1270%	1824%	2445%	2717%	2791%	2802%	2440%	2085%	1461%	972%	397%	49%	0	0	0	0	0	23288.	24
HR	30	30	30	30	30	22	22	22	21	21	21	21	21	21	21	22	22	22	22	22	30	30	30	30	30	593	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE. INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE. NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE. BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 27.

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 6	
		GLOBAL (RG630) KJ/M2																											
D	A	HOUR																								TOTL	HR		
Y		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	12	88	171	202	451	738	859	360	1017	928	1154	565	222	86	12	0	0	0	0	0	6863.	24	
2	0	0	0	0	0	0	17	261	508	705	1344	1577	1005	780	1073	1580	397	199	201	110	45	0	0	0	0	0	9802.	24	
3	0	0	0	0	0	0	18	87	171	365	539	845	1510	1594	1435	1616	1594	1133	518	369	36	0	0	0	0	0	11851.	24	
4	0	0	0	0	0	0	26	289	646	828	1437	1480	1652	1897	1754	1864	1389	1270	330	248	9	0	0	0	0	0	15119.	24	
5	0	0	0	0	0	0	15	163	318	587	677	1105	1219	1602	1823	1242	1296	1138	538	47	15	0	0	0	0	0	11785.	24	
6	0	0	0	0	0	0	22	126	243	398	1034	1421	1310	1242	1675	1341	1305	821	534	149	30	0	0	0	0	0	11851.	24	
7	0	0	0	0	0	0	7	132	326	817	1106	1255	1087	1640	1495	1045	982	270	410	365	60	0	0	0	0	0	10997.	24	
8	0	0	0	0	0	0	7	63	297	606	711	1021	1211	1831	1947	1722	1133	797	657	286	37	0	0	0	0	0	12327.	24	
9	0	0	0	0	0	0	19	243	496	904	972	1431	1686	1540	1686	1828	1358	949	643	275	41	0	0	0	0	0	14070.	24	
10	0	0	0	0	0	0	15	114	548	723	981	1289	1839	1713	1744	1018	1454	824	768	250	44	0	0	0	0	0	13325.	24	
11	0	0	0	0	0	0	18	179	650	1023	1411	1461	1748	1591	904	443	610	487	124	77	13	0	0	0	0	0	10739.	24	
12	0	0	0	0	0	0	20	100	236	486	850	1747	1305	1738	1790	1659	818	471	395	194	8	0	0	0	0	0	11814.	24	
13	0	0	0	0	0	0	19	223	547	856	746	1135	1460	283	950	896	847	798	726	278	65	0	0	0	0	0	9827.	24	
14	0	0	0	0	0	0	24	247	632	1044	1431	1747	1958	2046	1992	1813	1517	1157	748	329	38	0	0	0	0	0	18722.	24	
15	0	0	0	0	0	0	24	258	648	1002	1499	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	9999.	12	
16	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	9	
17	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	9	
18	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	9	
19	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	9	
20	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	9	
21	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	9	
22	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	9	
23	0	0	0	0	0	0	0	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	9999.	14	
24	0	0	0	0	0	0	39	313	660	1044	1410	1704	1898	1919	892	671	534	500	939	278	31	0	0	0	0	0	12831.	24	
25	0	0	0	0	0	0	32	216	510	569	758	1452	1605	1874	1884	1725	1486	938	565	224	31	0	0	0	0	0	13870.	24	
26	0	0	0	0	0	0	17	213	591	993	1395	1732	1996	2135	2101	1902	1568	1264	848	411	82	0	0	0	0	0	17228.	24	
27	0	0	0	0	0	0	20	214	607	959	1477	1813	2019	2030	2042	1521	1394	929	718	214	48	0	0	0	0	0	16004.	24	
28	0	0	0	0	0	0	12	140	396	901	1140	1681	1950	2078	1892	1584	1304	1118	748	324	50	0	0	0	0	0	15317.	24	
29	0	0	0	0	0	0	20	236	638	1049	1456	1774	1960	2068	1971	1869	1635	772	675	244	42	0	0	0	0	0	16408.	24	
30	0	0	0	0	0	0	16	220	599	971	1301	1698	1911	2032	1982	1279	1400	1162	702	317	54	0	0	0	0	0	15844.	24	
AV	0	0	0	0	0	0	19	187	474	763	1077	1434	1580	1619	1621	1407	1215	852	581	248	38	0	0	0	0	0	13118.	\$	
HR	30	30	30	30	30	22	22	22	21	21	21	21	21	21	21	21	22	22	22	22	22	30	30	30	30	30	593		

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 28.

		ATLANTA (GA TECH)												YEAR 1981		MONTH 6											
		DIFFUSE HORIZ. KJ/M2																									
D A Y		HOUR																								TOTL	HR
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	7	124	280	340	769	1252	1460	849	1652	1308	1367	910	356	112	26	0	0	0	0	10611.	24	
2	0	0	0	0	0	18	262	607	1109	750	1379	1487	1225	1753	1673	457	369	357	191	67	0	0	0	0	11703.	24	
3	0	0	0	0	0	16	128	278	608	931	1119	1385	1110	1346	1178	715	576	572	416	60	0	0	0	0	10438.	24	
4	0	0	0	0	0	28	228	638	753	787%	1095	1098	1064	1095	731	888	784	497%	337	36	0	0	0	0	10061.	24	
5	0	0	0	0	0	15	252	524	920	1137	1604	1821	1447	1663	1433%	1109	958	693	99%	20	0	0	0	0	13692.	24	
6	0	0	0	0	0	28	203	418	648	1163	1352	1761	1621	1396	1041	870	781	546	196	20	0	0	0	0	12045.	24	
7	0	0	0	0	0	20	246	572	994	1246	1676	1602	1771	1537	1377	1142	431	713	414	82	0	0	0	0	13821.	24	
8	0	0	0	0	0	8	101	493	947	1196	1457	1373	1363	1200	1228	1025	871	630	386	72	0	0	0	0	12349.	24	
9	0	0	0	0	0	23	345	670	1128	1215	1316	1496	1501	1216	1061	992	913	635	313	76	0	0	0	0	12899.	24	
10	0	0	0	0	0	20	185	662	894	1243	1095	1093	1129	1029	1079	735	747	428	309	84	0	0	0	0	10731.	24	
11	0	0	0	0	0	19	225	615	850	985	1039	1871	1948	1307	774	1043	849	187	134	21	0	0	0	0	11865.	24	
12	0	0	0	0	0	19	153	396	822	1273	827	1150	1125	1129	1084	924%	457%	545	300%	35	0	0	0	0	10239.	24	
13	0	0	0	0	0	27	270	562	845	1122	1565	1450	566	1568	1553	1460	1179	688	391	111	0	0	0	0	13357.	24	
14	0	0	0	0	0	29	236	454	612	701	758	800	794	768%	750%	684	462	273%	25%	82%	0	0	0	0	7428.	24	
15	0	0	0	0	0	23%	28%	251%	507%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m12
16	0	0	0	0	0	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m9
17	0	0	0	0	0	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m9	
18	0	0	0	0	0	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m9	
19	0	0	0	0	0	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m9	
20	0	0	0	0	0	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m9	
21	0	0	0	0	0	9999%	9999%	531%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m9	
22	0	0	0	0	0	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m9	
23	0	0	0	0	0	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999%	9999.	m14	
24	0	0	0	0	0	44	272	384	477	596	645	720	929	931%	922	693%	801%	1111	411	62%	0	0	0	0	8998.	24	
25	0	0	0	0	0	46	273	593	968	1304	1766	2055	1352	1293	1185	1142	985	713	301	73%	0	0	0	0	14054.	24	
26	0	0	0	0	0	24	237	485	701	789	737	628	590	598	744	655	475	306	201	69	0	0	0	0	7239.	24	
27	0	0	0	0	0	28	266	549	687	612	564	813	694%	774	883	876	617	513%	246	85%	0	0	0	0	8006.	24	
28	0	0	0	0	0	14	226	564	1017	1368	1469	1394	1191	1237	1209	1082	835	610	368	93	0	0	0	0	12678.	24	
29	0	0	0	0	0	26	231	451	559	651	745	853	855	862	846	852%	754%	628	326%	92%	0	0	0	0	8730.	24	
30	0	0	0	0	0	21	229%	483%	813%	1394	1217	1470%	1591%	1343	1356	1328	1121	732	396	96%	0	0	0	0	13592.	24	
AV	0	0	0	0	0	23%	215%	497%	795%	1011%	1175%	1313%	1167%	1224%	1115%	927%	737%	547%	276%	65%	0	0	0	0	11087.	8	
HR	30	30	30	30	30	22	22	22	21	21	21	21	21	21	21	22	22	22	22	22	30	30	30	30	593		

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 FLAGS:

- % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- m - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- s - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 29.

ATLANTA (GA TECH) YEAR 1981 MONTH 6

LAT. TILTED KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	5	90	222	278	653	1051	1274	534	1510	1338	1649	821	301	97	11	0	0	0	0	9833.	24	
2	0	0	0	0	0	9	179%	589	975	1909	2395	1608	1213	1689	2505	657	311	295	139%	37	0	0	0	0	14509.	24	
3	0	0	0	0	0	9	89%	221	510	820	1293	2335	2578	2365	2502	2390	1585	643	329%	28	0	0	0	0	17697.	24	
4	0	0	0	0	0	17	183%	689	1075	2055	2267	2626	3014	2808	2929	2071	1675	471	250%	18	0	0	0	0	22146.	24	
5	0	0	0	0	0	9	186%	443	821	1026	1666	1894	2532	2834	1925	1935	1590	688	43	8	0	0	0	0	17598.	24	
6	0	0	0	0	0	13	134	331	572	1499	2171	2062	1943	2664	2109	1979	1175	874	185	21	0	0	0	0	17533.	24	
7	0	0	0	0	0	7	172%	460	1102	1616	1933	1745	2621	2350	1690	1475	368	614	336%	40	0	0	0	0	16528.	24	
8	0	0	0	0	0	6	68	405	844	1064	1494	1886	2864	3054	2628	1688	1084	791	274%	31	0	0	0	0	18182.	24	
9	0	0	0	0	0	12	248%	579	1218	1421	2178	2628	2465	2706	2837	2069	1316	747	233%	33	0	0	0	0	20690.	24	
10	0	0	0	0	0	9	134%	626	976	1436	2007	2904	2739	2788	1631	2188	1170	852	234%	39	0	0	0	0	19734.	24	
11	0	0	0	0	0	12	167%	718	1331	1972	2224	2658	2547	1413	656	922	690	173	101	12	0	0	0	0	15595.	24	
12	0	0	0	0	0	13	118	313	695	1244	2686	2037	2751	2812	2521	1261	711	560	236	8	0	0	0	0	17944.	24	
13	0	0	0	0	0	15	196%	584	1127	1090	1752	2315	473	1511	1370	1242	1107	849	280%	52	0	0	0	0	13963.	24	
14	0	0	0	0	0	15	168%	614	1307	2014	2614	3037	3209	3118	2770	2209	1553	823	241%	32	0	0	0	0	23723.	24	
15	0	0	0	0	0	14	161%	610	1227	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m12	
16	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m9	
17	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m9	
18	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m9	
19	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m9	
20	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m9	
21	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m9	
22	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m9	
23	0	0	0	0	0	0	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	9999	99999.	m14	
24	0	0	0	0	0	0	23	228%	649	1317	1977	2557	2945	3028	1416	1037	781	729	1134	306%	31	0	0	0	0	18219.	24
25	0	0	0	0	0	0	19	161%	523%	784	1086	2103	2439	2934	2918	2617	2131	1250	704	283%	29	0	0	0	0	19983.	24
26	0	0	0	0	0	0	9	150%	576	1223	1948	2602	3088	3318	3242	2869	2260	1664	896	243	29	0	0	0	0	24117.	24
27	0	0	0	0	0	0	10	175%	594%	1190	2037	2678	3104	3136	3169	2337	2016	1269	803	211%	36	0	0	0	0	22764.	24
28	0	0	0	0	0	0	6	160%	482	1148	1636	2510	3012	3238	2974	2466	1944	1505	833	293%	42	0	0	0	0	22249.	24
29	0	0	0	0	0	0	10	149%	600	1286	2005	2604	2987	3177	3035	2910	2313	1094	780	225%	38	0	0	0	0	23112.	24
30	0	0	0	0	0	0	9	160%	581	1189	1832	2455	2844	3081	2999	2000	1990	1540	834	315%	52%	0	0	0	0	21881.	24
AV	0	0	0	0	0	11%	158%	519%	999%	1540%	2153%	2449%	2543%	2542%	2172%	1793%	1173%	696%	231%	30%	0	0	0	0	19008.	s	
HR	30	30	30	30	30	22	22	22	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	593	

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 FLAGS:

- % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 30.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 6							
		INFRARED 10 KJ/M2																											
D	Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR		
1	134	132	144	146	146	147	150	151	151	152	154	153	155	154	150	149	152	153	153	151	150	147	140	138	3551.	24			
2	138	146	141	140	141	143	148	150	153	148	147	154	153	148	144	153	153	150	150	145	143	145	141	138	3508.	24			
3	142	146	149	148	145	145	152	155	156	156	155	148% 143	144% 147	145	150	152	153	146	141	140	140	139	139	3536.	24				
4	139	141	144	143	140	139	147	153	152	149	149	145% 141	145	145	150	152	151	150	144	144	148	146	146	3504.	24				
5	142	138	138	143	140	144	149	152	154	155	155	155	150% 146	153	155	156	159	155	150	148	145	143	144	3569.	22				
6	145	147	147	147	146	144	148	152	158	155% 146	155% 156	144	152	152	158	158	157	156	156	150	150	144	3622.	23					
7	144	139	139	146	143	142	150	152	150	148	153	155	147	144% 147	146	154	150	147	145	142	143	139	148	3514.	24				
8	142	144	145	139	146	150	153	154	154	156	154	150	140% 136	138	152	156	154	155	148	142	141	140	140	3530.	24				
9	139	138	138	139	142	147	146	151	154	157	151	148% 149% 144	143	149	153	156% 154% 147	141	140	138	137	3502.	24							
10	136	136	134	135	136	139	152	153	158	159% 150	144	146% 144% 157	148	156	154	155	150	147	136	136	3497.	24							
11	136	133	134	137	137	139	144	152	154	152	150	149	166% 156	155	151	151	155	165% 152	147	144	139	138	3535.	24					
12	137	140	141	141	139	142	146	150	150	153	141	153% 148% 143% 152	161	166% 169% 158% 151	150	145	142	142	142	3561.	24								
13	143	143	139	139	146	147	142	147	150	154% 153	148	154% 151	156	157	155	154	154	150	144	142	141	140	3547.	24					
14	139	139	136	136	136	138	147	152	151	148	144	136	134% 156% 140	145	149	151	152	146	141	140	139	137	3430.	24					
15	136	135% 135	135	135	137	147	152	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	8		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	0
21	0	0	0	0	0	0	0	0	0	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	152% 150	155	156	149	143	141	140	140	99999.	9			
24	140	139	138	143	136	139	149	155	156	155	150	147	147	158	169	172% 165	166	163	163	164	166	162	159	3703.	24				
25	145	141	139	138	144	147	148	154	155	155	150	151	144	147	151	156	158	160	163	157	146	149	146	146	3588.	24			
26	148	145	143	137	132	135	141	146	147	144	137	145% 124% 126% 146% 136	139	139	140	133	127	128	128	129	129	129	3295.	24					
27	130	130	128	127	127	129	138	143	143	139	133	128% 137% 146% 138	145	145	147	146	142	137	135	134	134	3280.	24						
28	135	133	134	136	137	145	145	145	147	148	142	134	130	149% 138	144	146	147	147	141	136	135	133	132	3358.	24				
29	131	128	127	126	126	127	135	140	140	136	131	126% 126% 130% 132	138	147	149	156	146	137% 135	132	131	3232.	24							
30	130	128% 130	131	132	133	140	146	145	145	139	136	135	153% 146	150	152	151	151	151	148	147	141	140	3401.	24					
AV	138	138	138	139	139	141	146	150	151	151	147	146	144	146	148	150	153	154	154	148	144	143	140	140	3487.	8			
HR	20	22	22	22	22	22	22	22	21	21	21	21	21	21	21	22	22	22	22	22	22	22	21	51	8				

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 31.

ATLANTA (GA TECH) YEAR 1981 MONTH 6

ULTRAVIOLET KJ/M2

DAY	HOUR																								TOTL	HR										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24												
1	0	0	0	0	0	1	9	20	24	49	72	87	43	94	83	86	54	24	10	2	0	0	0	0	659.	24										
2	0	0	0	0	0	2	19	45	69	122	144	104	86	114	147	45	27	24	14	4	0	0	0	0	967.	24										
3	0	0	0	0	0	2	10	19	39	60	87	143	153	144	147	136	94	47	29	6	0	0	0	0	1114.	24										
4	0	0	0	0	0	2	21	49	76	122	132	153	165	157	162	121	100	39	23	5	0	0	0	0	1328.	24										
5	0	0	0	0	0	1	15	32	54	68	101	113	143	153	107	109	85	44	8	2	0	0	0	0	1035.	24										
6	0	0	0	0	0	2	14	28	45	96	132	130	124	155	126	115	74	48	19%	2	0	0	0	0	1114.	24										
7	0	0	0	0	0	2	14	33	74	103	117	109	156	136	105	95	31	44	26	4	0	0	0	0	1050.	24										
8	0	0	0	0	0	1	7	32	61	74	103	119	167	172	148	103	72	52	23	5	0	0	0	0	1140.	24										
9	0	0	0	0	0	2	19	44	78	87	130	151	145	155	156	119	81	52	24	6	0	0	0	0	1248.	24										
10	0	0	0	0	0	2	13	48	87	92	125	168	161	161	101	126	78	59	24	5	0	0	0	0	1230.	24										
11	0	0	0	0	0	2	18	50	80	115	131	152	146	88	52	65	53	15	10	2	0	0	0	0	977.	24										
12	0	0	0	0	0	2	12	26	52	84	154	129	158	160	138	73	41	29	14	2	0	0	0	0	1076.	24										
13	0	0	0	0	0	2	20	48	78	74	110	140	43	106	93	85	78	56	24	5	0	0	0	0	982.	24										
14	0	0	0	0	0	2	19	48	83	117	146	168	175	169	149	120	90	57	27	6	0	0	0	0	1375.	24										
15	0	0	0	0	0	2	19	49	78	*****														0	0	0	0	0	0	0	0	0	0	99999.	*12	
16	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
17	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
18	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
19	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
20	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
21	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
22	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
23	0	0	0	0	0	0	*****														0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.	*9
24	0	0	0	0	0	2	20	47	81	113	142	158	160	93	78	49	49	55	22	4	0	0	0	0	0	1073.	24									
25	0	0	0	0	0	2	16	39	56	75	125	137	158	151	132	105	70	43	16	5	0	0	0	0	1131.	24										
26	0	0	0	0	0	2	17	44	77	115	149	176	187	181	158	126	97	62	29	7	0	0	0	0	1426.	24										
27	0	0	0	0	0	2	17	46	80	121	154	176	174%	173	138	113	82%	54%	26%	7	0	0	0	0	1362.	24										
28	0	0	0	0	0	1	14	39	76	100	141	189	180	167	142	112	88	54	27	7	0	0	0	0	1316.	24										
29	0	0	0	0	0	2	18	46	82	120	150	167	173	164	151	121	71	48	17	5	0	0	0	0	1336.	24										
30	0	0	0	0	0	2	17	43	73	102	128	144	156	148	113	95	75	47	23	5	0	0	0	0	1171.	24										
AV	0	0	0	0	0	2%	16%	40%	67%	96%	127%	142%	145%	145%	125%	102%	72%	46%	21%	5%	0	0	0	0	1151.	\$										
HR	30	30	30	30	30	22	22	22	21	21	21	21	21	21	21	22	22	22	22	22	30	30	30	30	593											

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 % - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 32.

ATLANTA (GA TECH) YEAR 1981 MONTH 6

AVAILABLE SUNSHINE %

DAY	HOUR																								AVG	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0%	0	0	0	0	0	0	0	0	19	49	8	0	0	0%	0	0	0	0	5. 24	
2	8	0	0	0	0	0%	45	34	4	75	66	11	8	6	61	13	0	0	0	0%	0	0	0	0	23. 24	
3	0	0	0	0	0	0%	0	0	2	1	18	55	63	52	74	97	100	51	92	23%	0	0	0	0	44. 24	
4	0	0	0	0	0	0%	70	69	52	98	65	76	87	82	95	85	96	19	36	0%	0	0	0	0	66. 24	
5	0	0	0	0	0	0%	0	0	0	0	16	9	57	77	47	73	97	32	0	0%	0	0	0	0	29. 24	
6	0	0	0	0	0	0%	0	0	3	42	52	29	26	66	64	77	52	54	14	0%	0	0	0	0	34. 24	
7	0	0	0	0	0	0%	0	0	35	49	28	20	53	55	27	45	0	7	57	0%	0	0	0	0	27. 24	
8	0	0	0	0	0	0%	0	2	11	2	18	35	72	83	79	53	44	61	35	0%	0	0	0	0	35. 24	
9	0	0	0	0	0	0%	3	25	45	37	69	70	61	75	95	78	72	82	70	0%	0	0	0	0	55. 24	
10	0	0	0	0	0	0%	0	80	45	36	57	82	71	78	39	92	55	96	33	0%	0	0	0	0	52. 24	
11	0	0	0	0	0	0%	17	98	100	100	91	60	44	19	0	0	0	0	0	0%	0	0	0	0	37. 24	
12	0	0	0	0	0	0%	0	0	0	12	98	49	71	74	74	31	21	16	18	0%	0	0	0	0	33. 24	
13	0	0	8	0	0	0%	36	78	71	14	21	49	0	7	0	0	19	86	21	0%	0	0	0	0	29. 24	
14	0	0	0	0	0	0%	48	100	100	100	100	100	100	100	100	100	100	100	100	0%	0	0	0	0	87. 24	
15	0	0	0	0	0	0%	61	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	81. 24	
16	0	0	0	0	0	0%	0	20	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	79. 24	
17	0	0	0	0	0	0%	0	50	100	100	100	100	100	100	100	70	70	100	70	10	0	0	0	0	75. 24	
18	0	0	0	0	0	0%	0	60	100	100	100	100	100	100	100	100	100	100	100	20	0	0	0	0	83. 24	
19	0	0	0	0	0	0%	0	0	100	100	100	100	100	100	100	100	100	100	80	50	0	0	0	0	80. 24	
20	0	0	0	0	0	0%	0	0	100	100	100	100	100	100	70	0	60	90	40	0	0	0	0	0	61. 24	
21	0	0	0	0	0	0%	0	0	40	100	100	100	100	100	100	100	100	100	100	30	0	0	0	0	75. 24	
22	0	0	0	0	0	0%	0	0	30	100	80	100	100	100	100	100	100	100	100	0	0	0	0	0	71. 24	
23	0	0	0	0	0	0%	0	0	80	100	100	100	100	100	100	100	100	100	100	100	53%	0	0	0	0	86. 24
24	0	0	0	0	0	0%	78	100	100	100	100	100	99	30	18	17	15	84	0	0%	0	0	0	0	59. 24	
25	0	0	0	0	0	0%	0	39	0	0	45	38%	100	100	97	100	98	34	0	0%	0	0	0	0	46. 24	
26	0	0	0	0	0	0%	41	100	100	100	100	99	100	100	96	95	100	100	100	61%	0	0	0	0	90. 24	
27	0	0	0	0	0	0%	22	77	81	100	100	100	100	98	70	75	70	80	55	13%	0	0	0	0	73. 24	
28	0	0	0	0	0	0%	0	17	65	41	80	95	100	89	76	71	90	93	68	0%	0	0	0	0	62. 24	
29	0	0	0	0	0	0%	61	100	100	100	100	100	100	97	100	100	44	69	22	0%	0	0	0	0	77. 24	
30	0	0	0	0	0	0%	35	100	91	56	100	94	96	99	55	77	95	100	19	0%	0	0	0	0	71. 24	
AV	0	0	0	0	0	0	22	58	63	64	74	72	77	75	68	72	69	65	32	5	0	0	0	0	57.	
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 54.

39

Table 33.

ATLANTA (GA TECH) YEAR 1981 MONTH 7																												
DIRECT NORMAL KJ/M2																												
D A Y	HOUR																								TOTL	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	1	39%	557%	866	184	307	174%	417%	307%	8	2	2	2	2	2	0	0	0	0	0	2869.	24	
2	0	0	0	0	0	1	2	2	2	2	2	2	2	37%	3	2	72	137	2	2	0	0	0	0	0	271.	24	
3	0	0	0	0	0	1	2	2	2	32	38	15	10%	93%	48	2	3	12	2	5	0	0	0	0	0	267.	24	
4	0	0	0	0	0	1	4	45%	177%	93	474	1404	535	1339	202	769	1163	440	278	95	0	0	0	0	0	7020.	24	
5	0	0	0	0	0	1	2	6	319	382	986	777	794	910%	43	338	155	2	2	2	0	0	0	0	0	4718.	24	
6	0	0	0	0	0	1	2	2	25	34	211	1093	260	740	5	3	2	82	2	4	0	0	0	0	0	2448.	24	
7	0	0	0	0	0	60	1249	2042%	2377%	2570	2618	2418	2004	1211	867	658	783	183	2	2	0	0	0	0	0	19043.	24	
8	0	0	0	0	0	23	901	1878	2373	2499	2634	2384	2434	2216	1758	1793	1629	1038	391	98	0	0	0	0	0	24049.	24	
9	0	0	0	0	0	1	7	90	257	877	1233	1588	2159	1944	2173	1880	1560	1343	668	118	0	0	0	0	0	15898.	24	
10	0	0	0	0	0	17	453	1016	1648	1970	2140	2382	2210	2006	1371	1452	793	1159	737	112	0	0	0	0	0	19464.	24	
11	0	0	0	0	0	1	292	800	1014	1230	995	739	1431	1594	1252	593	266	84	2	2	0	0	0	0	0	10295.	24	
12	0	0	0	0	0	1	60	339	614	852	716	686	1071	1171	1257	1113	772	495	37	2	0	0	0	0	0	9185.	24	
13	0	0	0	0	0	1	178	676	886	1474	1526	1477	1363	1057	1138	1177	1203	626	420	67	0	0	0	0	0	13270.	24	
14	0	0	0	0	0	1	35	354	1223	1804	1835	1925	1972	1525	1778	1495	1238	863	437	56	0	0	0	0	0	16541.	24	
15	0	0	0	0	0	1	21	490	980	1680	1375	1645	1484	2016	295	89	64	38	2	18	0	0	0	0	0	10198.	24	
16	0	0	0	0	0	1	388	1291	1814	1927	1525	994	1040	2138%	2554	2279	2030	1713	912	150	0	0	0	0	0	20756.	24	
17	0	0	0	0	0	19	784	1392	1789	2309	2238	1833	1133%	1128%	879	1153	1288	930	3	2	0	0	0	0	0	16880.	24	
18	0	0	0	0	0	1	55	419	1153	593	581	1469	1363%	1238	873	703	668	746	435	35	0	0	0	0	0	10330.	24	
19	0	0	0	0	0	1	201	719	1009	1523	1485	897	994	1201	1231	1247	1375%	1311	358	2	0	0	0	0	0	13556.	24	
20	0	0	0	0	0	1	190	596	1007	1065	832%	952	940%	476	1588	1515	1316	1393	1009	131	0	0	0	0	0	13010.	24	
21	0	0	0	0	0	48	1004	1981	2827	3075	3187	3272	3112	3019	2525	2238	2375	2035	1293	239	0	0	0	0	0	32229.	24	
22	0	0	0	0	0	36	893	1818	2274	2673	2606	3036	3146	3017	2997	2947	2657	2011	1332	252	0	0	0	0	0	31696.	24	
23	0	0	0	0	0	15	837	1779	2235	2511	2636	2753	2776	2876	2262	2020	2104	1725	720	132	0	0	0	0	0	27382.	24	
24	0	0	0	0	0	1	360	906	1587	1609	1358	2247	2025	2036	417	616	845%	324%	340	2	0	0	0	0	0	14672.	24	
25	0	0	0	0	0	1	3	3	863	665	878	1078	42	6	148	43	1588	1334	746	62	0	0	0	0	0	7461.	24	
26	0	0	0	0	0	1	225	1007	1408	1810	1784	1673	1466	1273	957	241	6	5	64%	2	0	0	0	0	0	11923.	24	
27	0	0	0	0	0	1	266	801	259	122	59	376	459%	68	800	1262	790	362	457	15	0	0	0	0	0	6097.	24	
28	0	0	0	0	0	1	69	1041	1843	2258	2381	2230	1653	1763	2181	1950	1526	911	150	30	0	0	0	0	0	19987.	24	
29	0	0	0	0	0	1	431	816	129	5	5	16	1728	1270	230	3	3	3	3	2	0	0	0	0	0	4644.	24	
30	0	0	0	0	0	1	3	3	30	3	3	415	488	194	427	385	608	5	10	3	0	0	0	0	0	2578.	24	
31	0	0	0	0	0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	38.	24	
AV	0	0	0	0	0	8	289	738	1064	1221	1247	1353	1307	1286	1041	967	932	687	349	53	0	0	0	0	0	12541.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 % - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 34.

ATLANTA (GA TECH) YEAR 1981 MONTH 7

DIRECT (RG630) KJ/M2

DAY	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	3	44	498%	740%	158%	249%	143%	327%	248%	11	5	5	5	5	4	0	0	0	0	2443.	24
2	0	0	0	0	0	2	4s	5	5	5	5	5	24	5	5	50	104	5	4	0	0	0	0	0	233.	24
3	0	0	0	0	0	2	5	5	5	23	28	13	9	65	35s	5	6	14	5	9	0	0	0	0	228.	24
4	0	0	0	0	0	2	7	42%	125%	65	317	946	359	904	149	551	847	339	251	107%	0	0	0	0	5011.	24
5	0	0	0	0	0	2	5	8	209	241	625	479	467	537	9	5m	5m	5	5	4	0	0	0	0	3089.	22
6	0	0	0	0	0	2	5	5	18	23	119	653	161	459	9	7	5	45	5	6	0	0	0	0	1520.	24
7	0	0	0	0	0	58	943	1363	1497%	1584	1612	1479	1254	800	601	471	581	149	5	4	0	0	0	0	12402.	24
8	0	0	0	0	0	29	762%	1345	1581	1639	1700	1542	1619	1517	1207	1275	1241	856%	326m	73m	0	0	0	0	17064.	22
9	0	0	0	0	0	3	12	92%	232%	707%	936%	1120	1465	1314	1455	1280	1135	1088%	636%	125%	0	0	0	0	11600.	24
10	0	0	0	0	0	23	425%	825	1252	1431	1506	1630	1540	1440	1036%	1112%	642%	975%	704%	352s	0	0	0	0	14894.	24
11	0	0	0	0	0	3	300%	717%	865%	1014%	813%	605%	1127%	1232%	1020%	383m	113m	103%	6	4	0	0	0	0	9295.	22
12	0	0	0	0	0	2	72	277%	592m	741%	608%	556%	849%	918%	977%	884%	647%	348s	50%	7	0	0	0	0	7827.	22
13	0	0	0	0	0	2	188%	607%	740%	1130%	1134	1059	992	811%	897%	963%	1008%	591m	9999m	84%	0	0	0	0	10619.	22
14	0	0	0	0	0	2	45	314%	968%	1310	1289	1345	1383	1102	1286	1131%	1023%	792%	432s	72%	0	0	0	0	12496.	24
15	0	0	0	0	0	3	30	415%	755	1220	957	1121	1005	1376	215	68	53	33	5	34	0	0	0	0	7289.	24
16	0	0	0	0	0	3	352	993	1296	1339	1044	687	684	1365	1620	1491	1393	1260	783%	151%	0	0	0	0	14461.	24
17	0	0	0	0	0	23	655	1035	1233	1541	1459	1181	744	745	614	856	1031%	802%	5	5	0	0	0	0	11929.	24
18	0	0	0	0	0	2	49	324	818	401	404	992	914	872	641	523	520	652%	351s	51%	0	0	0	0	7512.	24
19	0	0	0	0	0	2	194%	612%	793	1116	1072	644	709	857	903	902	1073%	1175m	13m	4	0	0	0	0	9806.	22
20	0	0	0	0	0	2	195%	525%	811%	812	614	659	635	329	1029	1007	930	1080	906%	453s	0	0	0	0	9983.	24
21	0	0	0	0	0	51	777	1295	1756	1865	1908	1941	1866	1833	1554	1455	1633	1535	1149%	574s	0	0	0	0	21192.	24
22	0	0	0	0	0	40	768%	1315	1506	1700	1648	1856	1895	1835	1842	1831	1727	1460	1110	257%	0	0	0	0	20788.	24
23	0	0	0	0	0	19	723%	1303	1516	1640	1696	1750	1759	1794	1498	1391	1459	1285	654%	141%	0	0	0	0	18630.	24
24	0	0	0	0	0	3	336%	733	1160	1099	888	1493	1366	1413	308	508%	748%	146m	69m	4	0	0	0	0	11110.	22
25	0	0	0	0	0	2	5	6	567	429	509	625	27	8	88	32	1155	1128%	597s	67%	0	0	0	0	5245.	24
26	0	0	0	0	0	2	206	778	1001	1238	1206	1130	979	897	704	194%	10	15	10s	4	0	0	0	0	8374.	24
27	0	0	0	0	0	2	259%	664	204	90	42	243	298	52	603	962	636%	329%	446%	24	0	0	0	0	4854.	24
28	0	0	0	0	0	1	72	776	1228	1423	1462	1363	1025	1108	1378	1300	1104	718	149%	42	0	0	0	0	13148.	24
29	0	0	0	0	0	1	345	599	87	7	6	12	1018	789	150	5	6	6	6	4	0	0	0	0	3041.	24
30	0	0	0	0	0	1	6	6	23	6	5	265	316	132	285	271	462	8	13	8	0	0	0	0	1805.	24
31	0	0	0	0	0	1	3s	8	6	6	6	6	6	6	6	6	6	6	6	4	0	0	0	0	75.	24
AV	0	0	0	0	0	10	251	574s	767s	839	834	888	864	864	714	707s	729s	541s	307s	87s	0	0	0	0	8975.	s
HR	31	31	31	31	31	31	31	30	30	31	31	31	31	31	29	29	28	27	30	31	31	31	31	31	730	

FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 s - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 35.

		ATLANTA (QA TECH)																								YEAR 1981		MONTH 7	
		GLOBAL HORIZ. KJ/M2																											
D A Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTT	HR			
																											HOUR		
1	0	0	0	0	0	8	203%	781%	1506	1417	1962	1418	2083	2224	933	556	543	193	98%	4	0	0	0	0	13930.	24			
2	0	0	0	0	0	2	29%	55	152%	182%	613	826	732	1311	889	603	918	923	178	5	0	0	0	0	7418.	24			
3	0	0	0	0	0	2	27	118	451%	1250	1372	1176	1457	1319	965%	611	795	640	247	41	0	0	0	0	10473.	24			
4	0	0	0	0	0	11	173	532%	1118	1216	2005	2917	2192	3191	1726	1972	1779	788	552	70	0	0	0	0	20241.	24			
5	0	0	0	0	0	2	142	379	981	1058	2202	2159	1995	2129	448	1458	1069	453	270	52	0	0	0	0	14798.	24			
6	0	0	0	0	0	3	88	347	850	1149	1796	2455	1511	2109	408	591	119	338	44	4	0	0	0	0	11811.	24			
7	0	0	0	0	0	11	299	938%	1716%	2310%	2875	3079	3124	2473	2028	1658	1764	644	198	35	0	0	0	0	23151.	24			
8	0	0	0	0	0	9	308	969	1699	2362	2936	3174	3492	3380	2801	2509	1925	1070	402	78	0	0	0	0	27114.	24			
9	0	0	0	0	0	7	195	597	1160	2052	2504	2968	3404	3151	3008	2392	1960	1294	526	85	0	0	0	0	25303.	24			
10	0	0	0	0	0	10	263%	812	1557	2232	2729	3196	3397	3295	2496	2273	1522	1203	510	62	0	0	0	0	25557.	24			
11	0	0	0	0	0	10	282	816	1385	2052	2408	2713	3155	3195	2890	2149	1306	823	200	6	0	0	0	0	23392.	24			
12	0	0	0	0	0	6	195	622	1286	1970	2242	2379	3025	3000	2836	2345	1755	1205	392	53	0	0	0	0	23312.	24			
13	0	0	0	0	0	8	219	763	1395	2163	2658	2893	2848	2614	2583	2385	1846	1102	477	58	0	0	0	0	24011.	24			
14	0	0	0	0	0	8	149	554	1549	2301	2794	3135	3455	2984	2840	2418	1804	1085	449	50	0	0	0	0	25574.	24			
15	0	0	0	0	0	8	161	671	1332	2223	2471	2903	2800	3212	885	1238	749	443	141	54	0	0	0	0	18292.	24			
16	0	0	0	0	0	4	233	864	1590	2231	2436	2318	2223	3237	3218	2587	1942	1279	519	63	0	0	0	0	24743.	24			
17	0	0	0	0	0	6	272	837	1462	2245	2802	2797	2325	2262	1931	2088	1676	999	85	8	0	0	0	0	21794.	24			
18	0	0	0	0	0	2	146%	764	1524	1909	2063	2982	3025%	2819%	2280	1786	1422	997	446	47	0	0	0	0	22212.	24			
19	0	0	0	0	0	3	207	762	1416	2140	2565	2374	2381	2756	2588	2096	1673	1183	306	4	0	0	0	0	22455.	24			
20	0	0	0	0	0	3	199	701	1348	1975	2293	2370	2321	1533	2691	2085	1585	1172	541	71	0	0	0	0	20888.	24			
21	0	0	0	0	0	4	257	903	1698	2409	2980	3401	3503%	3414%	3028	2560	2014	1295	548	53	0	0	0	0	28067.	24			
22	0	0	0	0	0	6	268	883	1576	2289	2911	3399	3534	3377	3126	2704	2047	1260	545	58	0	0	0	0	27980.	24			
23	0	0	0	0	0	3	254	888	1617	2309	2855	3267	3460	3498	3067	2410	1899	1159	404	45	0	0	0	0	27136.	24			
24	0	0	0	0	0	3	240	755	1500	2102	2329	3147	3276	3295	1359	1492	1405	776	380	5	0	0	0	0	22063.	24			
25	0	0	0	0	0	1	92	337	1286	1921	2437	2969	1479	1149	1961	1548	1734	1104	463	36	0	0	0	0	18519.	24			
26	0	0	0	0	0	3	219	784	1333	2069	2538	2918	2914	2646	2138	920	219	287	547%	137	0	0	0	0	19672.	24			
27	0	0	0	0	0	4	283	1008	1054	1173%	1571	2260	2501	1741	2304	2191	1407	689	437	40	0	0	0	0	18643.	24			
28	0	0	0	0	0	4	183	816	1522	2197	2855	3184%	2754	2881%	2990	2514	1805	953	252	69	0	0	0	0	24960.	24			
29	0	0	0	0	0	2	204	783	1016	1057	1460	1707	3237%	2416%	1243	249	116	42	87	8	0	0	0	0	13627.	24			
30	0	0	0	0	0	1	97%	335%	709%	543	739%	2388%	2329%	2196%	2468%	2097%	1638%	598	275	15	0	0	0	0	18429.	24			
31	0	0	0	0	0	1	23%	44	169%	235	302	545%	587%	611%	571%	474%	372	269	94	5	0	0	0	0	4301.	24			
AV	0	0	0	0	0	5	190	659	1257	1766	2216	2562	2597	2561	2087	1773	1381	847	342	43	0	0	0	0	20286.				
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744			

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 8 - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 36.

		ATLANTA (GA TECH)												YEAR 1981				MONTH 7										
		GLOBAL (RG630) KJ/M2																										
D A Y	1	2	3	4	5	6	7	8	9	10	11	12	HOUR												24	TOTL	HR	
													13	14	15	16	17	18	19	20	21	22	23					
1	0	0	0	0	0	11	144	504	947	851	1175	843	1240	1301	521	316	314	120	62s	3	0	0	0	0	0	8351.	24	
2	0	0	0	0	0	2	18s	34	82	100	320	435	389	726	494	343	535	541	114	7	0	0	0	0	0	4138.	24	
3	0	0	0	0	0	11	39	91	276	721	786	678	834	762	548s	334	459	385	153	34	0	0	0	0	0	6111.	24	
4	0	0	0	0	0	12	107	326	667	714	1197	1742	1271	1866	985	1155	1042	450	334	47	0	0	0	0	0	11916.	24	
5	0	0	0	0	0	8	101	231	572	620	1286	1225	1110	1180	240	812	604	259	162	35	0	0	0	0	0	8444.	24	
6	0	0	0	0	0	8	64	209	490	648	1015	1392	819	1187	198	317	63	197	34	11	0	0	0	0	0	6652.	24	
7	0	0	0	0	0	7	196	643x	1007x	1374	1672	1769	1804	1425	1187	960	1057	388	122	27	0	0	0	0	0	13636.	24	
8	0	0	0	0	0	10	208	600	1011	1379	1699	1825	2020	1955	1608	1454	1129	618	230	50	0	0	0	0	0	15797.	24	
9	0	0	0	0	0	10	131	372	700	1236	1492	1740	1990	1831	1747	1381	1141	772	324	58	0	0	0	0	0	14926.	24	
10	0	0	0	0	0	10	178	515	957	1335	1628	1883	2003	1951	1496	1341	895	731	312	38	0	0	0	0	0	15271.	24	
11	0	0	0	0	0	11	184	516	851	1252	1442	1607	1859	1867	1710	1285	789	498	123	7	0	0	0	0	0	14002.	24	
12	0	0	0	0	0	8	124	421	800	1214	1344	1406	1798	1795	1653	1384	1029	727	240	37	0	0	0	0	0	13980.	24	
13	0	0	0	0	0	9	144	482	855	1292	1559	1682	1656	1518	1505	1409	1091	661	296	36	0	0	0	0	0	14194.	24	
14	0	0	0	0	0	10	100	344	948	1369	1644	1838	2033	1742	1659	1427	1080	661	276	31	0	0	0	0	0	15161.	24	
15	0	0	0	0	0	9	105	418	809	1333	1453	1698	1622	1877	508	710	437	260	93	47	0	0	0	0	0	11380.	24	
16	0	0	0	0	0	5	156	546	968	1332	1441	1360	1270	1872	1849	1484	1122	754	316	40	0	0	0	0	0	14515.	24	
17	0	0	0	0	0	6	181	522	880	1338	1652	1637	1339	1301	1090	1222	1000	594	42	6	0	0	0	0	0	12812.	24	
18	0	0	0	0	0	4	94	476	926	1117	1198	1706	1729	1610	1317	1032	813	591	276	31	0	0	0	0	0	12923.	24	
19	0	0	0	0	0	5	139	482	861	1284	1498	1384	1399	1599	1522	1215	986	711	177	3	0	0	0	0	0	13263.	24	
20	0	0	0	0	0	4	135	443	834	1182	1353	1368	1327	865	1556	1183	912	686	325	44	0	0	0	0	0	12217.	24	
21	0	0	0	0	0	6	172	560	1030	1433	1761	1985	2032	1986	1751	1497	1175	768	336	32	0	0	0	0	0	16524.	24	
22	0	0	0	0	0	7	189	569	966	1384	1731	1987	2054	1981	1829	1579	1204	761	339	38	0	0	0	0	0	16615.	24	
23	0	0	0	0	0	6	179	571	986	1380	1697	1922	2043	2048	1840	1428	1130	701	242	27	0	0	0	0	0	16199.	24	
24	0	0	0	0	0	5	168	483	925	1256	1373	1878	1955	1981	749	885	879	457	231	3	0	0	0	0	0	13225.	24	
25	0	0	0	0	0	2	69	210	777	1145	1422	1724	836	651	1122	889	1023	660	273	21	0	0	0	0	0	10822.	24	
26	0	0	0	0	0	3	148	501	821	1256	1512	1715	1694	1567	1261	524	118	175	341	98	0	0	0	0	0	11734.	24	
27	0	0	0	0	0	2	165	652	618	650	884	1292	1425	978	1352	1274	833	389	255	21	0	0	0	0	0	10790.	24	
28	0	0	0	0	0	2	108	496	906	1286	1656	1836	1568	1645	1725	1467	1048	545x	134	44	0	0	0	0	0	14465.	24	
29	0	0	0	0	0	1	120	469	580	593	824	951	1838	1344	672	118	60	33	60	9	0	0	0	0	0	7673.	24	
30	0	0	0	0	0	1	52	186	394	296	403	1352	1316	1242	1410	1208	957	345	166	13	0	0	0	0	0	9341.	24	
31	0	0	0	0	0	1	15s	29	87	123	156	280	299	314	293	249	196	146	59	9	0	0	0	0	0	2256.	24	
AV	0	0	0	0	0	8	127	416	759	1048	1299	1488	1502	1483	1206	1028	810	503	208	29	0	0	0	0	0	11914.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 s - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 37.

ATLANTA (GA TECH) YEAR 1961 MONTH 7

D) DIFFUSE HORIZ. KJ/M2

DAY	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	17	221%	585%	1040%	1293%	1699%	1278%	1888	1925	962	595	577	231	117%	4	0	0	0	0	12234.	24	
2	0	0	0	0	0	6	48%	91%	187%	218%	633%	840%	748%	1279	897	623	881	874	210	20	0	0	0	0	7555.	24	
3	0	0	0	0	0	6	45	142%	471%	1227%	1348	1183	1459	1242	945%	647	814	655	281	67	0	0	0	0	10533.	24	
4	0	0	0	0	0	18	186%	529%	1020%	1162%	1598%	1631%	1674	1882	1572	1396	1096	598%	534	59	0	0	0	0	14954.	24	
5	0	0	0	0	0	12	174	413	832	816	1396	1496	1228	1260%	425	1169	960	486	299	75	0	0	0	0	11040.	24	
6	0	0	0	0	0	11	111	367	851	1139	1604	1397%	1230%	1396	427	874	134	348	87	42	0	0	0	0	9818.	24	
7	0	0	0	0	0	17	155%	273%	389%	494	631	791	1142	1304	1261	1164	1263	592%	191	31	0	0	0	0	9698.	24	
8	0	0	0	0	0	19	193	312	418	587	702	936	1107	1242	1230	1116	926	617	355	111%	0	0	0	0	9869.	24	
9	0	0	0	0	0	18	222	580	1020	1426	1478	1485	1309	1289	1070	929	1008	729	401	119%	0	0	0	0	13080.	24	
10	0	0	0	0	0	19	44%	322%	678%	840	942	993	1273	1397	1306	1194	1093	726	376	93%	0	0	0	0	11295.	24	
11	0	0	0	0	0	21	253	555	854	1203	1597	2037	1796	1694	1804	1736	1175	834	185	42%	0	0	0	0	15786.	24	
12	0	0	0	0	0	19	220%	575%	963	1375	1661	1751	1991	1891%	1717	1505	1279	1000	342	89%	0	0	0	0	16379.	24	
13	0	0	0	0	0	19	215	549	932	1134	1387	1519	1533	1621	1589	1497	1119	859	420	94%	0	0	0	0	14488.	24	
14	0	0	0	0	0	17	168	437	898	1033	1261%	1347%	1540%	1533%	1274%	1279%	1064	745	394	86%	0	0	0	0	13076.	24	
15	0	0	0	0	0	20	190	518	817	1057	1327	1379	1371	1306	816%	1214	765	406%	133	50	0	0	0	0	11170.	24	
16	0	0	0	0	0	13	195	436	643	888%	1179%	1405%	1230%	1195%	941%	844%	712%	556	335%	89%	0	0	0	0	10661.	24	
17	0	0	0	0	0	14	173	378	514	635	938%	1110%	1244%	1206%	1178%	1201%	906%	490%	143%	36%	0	0	0	0	10167.	24	
18	0	0	0	0	0	9	163	637	912%	1506%	1588%	1630%	1712%	1658%	1534	1274	1018	699	372%	81%	0	0	0	0	14794.	24	
19	0	0	0	0	0	10	200	543	892	1100	1349	1587	1467%	1648	1535	1149%	794	560	241%	38%	0	0	0	0	13113.	24	
20	0	0	0	0	0	11	202	528	838	1255%	1605%	1503%	1430%	1111%	1298%	936%	806%	571%	324	52	0	0	0	0	12470.	24	
21	0	0	0	0	0	12	138	236	225	276	325	365	476	523	768	829%	506	337	230	65	0	0	0	0	5310.	24	
22	0	0	0	0	0	12	164	292	389	452	743	583	478	495	466	435	425	409	264	69	0	0	0	0	5672.	24	
23	0	0	0	0	0	9	159	321	467	584	680	730	796	769	1096%	886	646	449	284	32	0	0	0	0	7908.	24	
24	0	0	0	0	0	10	215	480	684	1018	1183%	1098	1355	1401	1039%	1062	925	695%	348%	30%	0	0	0	0	11541.	24	
25	0	0	0	0	0	4	121	362	816	1478	1655	1941	1467	1178	1817	1523	711%	488	283	67%	0	0	0	0	13909.	24	
26	0	0	0	0	0	8	214	474	621	841	1081	1397	1512	1470	1301	790%	217	323	568%	158	0	0	0	0	10875.	24	
27	0	0	0	0	0	6	267%	737	914	1192%	1583	1805	2024	1673	1808	1224	958	583	360	65%	0	0	0	0	14999.	24	
28	0	0	0	0	0	7	184	468	566	636	877	1106	1156	1183	1058	1010	902	508	195	89	0	0	0	0	9944.	24	
29	0	0	0	0	0	4	141	555	950	1060	1459	1687	1522	1197	1057	227	103	32	73	11	0	0	0	0	10078.	24	
30	0	0	0	0	0	3	108	342	690	552	744	1950	1841	1992	2039	1762	1252	623	301	32	0	0	0	0	14230.	24	
31	0	0	0	0	0	1	40%	78	200	266	332	560	598	621	577	481	375	278	106	11	0	0	0	0	4526.	24	
AV	0	0	0	0	0	12	166	423	700	927	1180	1307	1335	1341	1174	1044	820	558	282	61	0	0	0	0	11331.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 @ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 38.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 7						
		LAT. TILTED KJ/M2																										
D A Y		HOUR																								TOTL	HR	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	6	154%	560	1183	1213	1713	1281	1852	2017	814	479	439	161	85%	9	0	0	0	0	0	11966.	24	
2	0	0	0	0	0	5	28%	51	132	160	513	705	614	1154	740	523	797	719	132	9	0	0	0	0	0	6282.	24	
3	0	0	0	0	0	5	14	89	383	1089	1156	1041	1240	1112	837%	563	721	537	209%	31	0	0	0	0	0	8996.	24	
4	0	0	0	0	0	7	124%	417	924	1049	1792	2642	1938	2899	1521	1711	1448	597	397%	49	0	0	0	0	0	17516.	24	
5	0	0	0	0	0	5	112%	313	811	943	1966	1954	1876	1928	361	1264	911	403	225%	45%	0	0	0	0	0	13117.	24	
6	0	0	0	0	0	4	65	285	714	956	1562	2215	1341	1885	358	466%	82	279	41	9	0	0	0	0	0	10264.	24	
7	0	0	0	0	0	7	124%	577	1259	1925	2509	2782	2868	2225	1818	1448	1490	552	173%	28	0	0	0	0	0	19785.	24	
8	0	0	0	0	0	5	115%	554	1276	1940	2587	2884	3229	3122	2544	2184	1573	782	250%	49	0	0	0	0	0	23094.	24	
9	0	0	0	0	0	7	148%	471	963	1760	2248	2732	3161	2947	2762	2099	1625	941	338%	61%	0	0	0	0	0	22263.	24	
10	0	0	0	0	0	8	134%	519	1203	1894	2440	2945	3169	3071	2288	2041	1297	894	309%	41	0	0	0	0	0	22251.	24	
11	0	0	0	0	0	7	174%	555	1099	1767	2172	2504	2938	2962	2606	1854	1102	678	178	9	0	0	0	0	0	20605.	24	
12	0	0	0	0	0	8	145%	504	1053	1697	2006	2191	2761	2756	2567	2065	1477	963	315%	44	0	0	0	0	0	20554.	24	
13	0	0	0	0	0	5	134%	522	1108	1869	2397	2675	2863	2415	2361	2093	1515	845	318%	41	0	0	0	0	0	20960.	24	
14	0	0	0	0	0	6	105%	397	1235	2005	2545	2916	3223	2791	2613	2133	1511	821	297%	37	0	0	0	0	0	22638.	24	
15	0	0	0	0	0	6	120%	477	1077	1938	2230	2699	2628	2990	758	1056	657	420	139	45	0	0	0	0	0	17240.	24	
16	0	0	0	0	0	4	120%	547	1238	1915	2195	2105	2106%	2973	2920	2272	1604	922	297%	41	0	0	0	0	0	21260.	24	
17	0	0	0	0	0	4	119%	517	1135	1930	2538	2601	2176%	2113	1794	1862	1413	750	75	11	0	0	0	0	0	19037.	24	
18	0	0	0	0	0	3	96%	576	1268	1680	1827	2741	2815	2614	2061	1570	1213	751	282%	39	0	0	0	0	0	19547.	24	
19	0	0	0	0	0	3	129%	528	1130	1849	2305	2137	2217	2558	2352	1849	1419	865	214	9	0	0	0	0	0	19563.	24	
20	0	0	0	0	0	4	131%	499	1082	1708	2102	2229	2168	1399	2471	1908	1326	862	317%	55	0	0	0	0	0	18260.	24	
21	0	0	0	0	0	3	89	532	1297	2069	2709	3175	3301	3213	2798	2283	1674	906	257	25	0	0	0	0	0	24330.	24	
22	0	0	0	0	0	4	108%	534	1230	1992	2670	3210	3355	3192	2896	2406	1894	898	278%	31	0	0	0	0	0	24498.	24	
23	0	0	0	0	0	3	102	540	1267	2009	2618	3075	3289	3300	2815	2171	1600	848	245%	32	0	0	0	0	0	23924.	24	
24	0	0	0	0	0	3	130%	505	1203	1792	2165	3017	3141	3075	1281	1356	1194	638	261%	9	0	0	0	0	0	19768.	24	
25	0	0	0	0	0	3	70	271	1063	1703	2221	2682	1351	999	1729	1329	1454	817	264%	29	0	0	0	0	0	15984.	24	
26	0	0	0	0	0	3	142%	555	1089	1830	2338	2731	2778	2539	2031	870	190	215	395%	107%	0	0	0	0	0	17812.	24	
27	0	0	0	0	0	3	169%	738	828	995	1398	2117	2291	1562	2097	1971	1184	541	276%	24	0	0	0	0	0	18196.	24	
28	0	0	0	0	0	2	121%	552	1209	1929	2625	3002	2603	2677	2786	2295	1534	746	169	45%	0	0	0	0	0	22297.	24	
29	0	0	0	0	0	2	89%	507%	830	917	1245	1507	3051	2240	1101	200	85	35	79	10	0	0	0	0	0	11901.	24	
30	0	0	0	0	0	2	68	269	586	454	634	2182	2169	2012	2285	1880	1425	497	212	10	0	0	0	0	0	14684.	24	
31	0	0	0	0	0	2	21%	41	145	197	259	466	500	532	491	387	305	223	88	7	0	0	0	0	0	3643.	24	
AV	0	0	0	0	0	4	110	452	1001	1521	1990	2359	2414	2364	1899	1587	1160	849	229	32	0	0	0	0	0	17749.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 39.

ATLANTA (GA TECH) YEAR 1981 MONTH 7																										
INFRARED 10 KJ/M2																										
D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	138	135	136	138	133	134	143	145	147	150	150	153	150	150	152	152	153	153	160%	147	146	147	145	145	3502.	24
2	145	145	145	146	147	149	156%	150	151	154	150	148	158%	148	151	151	151	158%	150	147	147	147	146	145	3584.	24
3	145	144	146	147	147	149	150	149	151	152	153	155	154	154	153%	151	149	146	146	145	144	146	139	140	3555.	24
4	137	146	140	141	142	141	143	148	148	153	147%	144	146	137	154%	152	151	149	151	147	142	142	142	141	3485.	24
5	139	141	141	150	152	155	157	158	158	160	157	155%	159%	160%	152	148	151	149	150	147	144	144	145	144	3616.	24
6	137	137	139	138	138	148	154	156	158	158	155	159%	162%	162%	155	155	154	154	156	152	150%	148	144	139	3606.	24
7	137	139	140	140	142	143	149	160%	145%	147	141	154%	143%	148%	148	159	158	161	161	158	151	148	148	148	3568.	24
8	145	143	143	142	141	141	150	156	156	152	147	144	141	144	150	154	157	159	159	156	153	151	148	150	3581.	24
9	148	149	146	146	146	147	150	154	155	156	155	145	161%	145	147	155	161	161	161	157	151	147	146	145	3635.	24
10	145	143	142	140	140	141	149	155	157	154	153	147	147	150	158	160	165	163	163	157	153	153	151	150	3636.	24
11	148	148	146	145	143	144	148	153	155	156	159	154	150	150	162	162	167%	166	166	159	157	156	156	167	3718.	24
12	163	161	155	151	148	148	152	158	156	156	157	158	150	155	154	158	160	162	162	159	156	155	152	152	3735.	24
13	150	149	149	146	146	147	151	156	160	159	154	157	150	152	154	157	158	161	160	153	148	146	145	144	3654.	24
14	144	143	143	143	143	144	148	151	156	155	152	144	141	151	149	156	159	161	162	158	154	153	153	152	3615.	24
15	150	149	149	147	147	148	152	159	160	160	159	154	150	149	157	161	163%	160	162	159	154	153	151	149	3704.	24
16	148	146	146	144	143	143	150	158	160	158	158	156%	154%	151	150	156	160	162	163	158	153	155	153	150	3676.	24
17	148	146	145	144	143	144	152	157	159	156	150	147%	152	158	159	162	161	163	164	155	152	152	151	148	3669.	24
18	143	143	142	141	144	147	148	156	158	160	158	157%	143	150	156	158	158	159	158	153	149	148	147	147	3624.	24
19	147	145	144	144	143	143	149	156	157	156	154	154	168%	156	160	160	161	161	162	161	158	158	154	153	3704.	24
20	152	150	149	148	148	148	153	158	160	160	160	160	161%	163%	158	161	165	165	164	160	155	152	149	147	3746.	24
21	146	147	142	140	134	135	145	149	149	145	140	134	154%	154%	144	152	152	154	155	148	141	139	139	140	3478.	24
22	139	139	137	135	135	135	145	152	152	151	146	137	133%	137%	139	142	147	151	152	146	141	138	136	135	3399.	24
23	133	133	132	132	132	133	142	149	151	149	145	140	138%	152%	149	152	155	157	158	152	147	147%	147	150	3477.	24
24	146	144	142	140	139	139	146	153	156	156	154	150	161%	153	164	165	168	168	164	157	168%	158	152	148	3690.	24
25	146	146	143	148	147	146	149	152	152	155	152	148	159	160	157	161	156	160	160	154	149	146	148%	146	3643.	24
26	145	146	145%	144%	143%	143	148	157	159	158	155	152	152	154	163	169	169%	161	160	157	155	155	153	148	3691.	24
27	142	142	141	142	141	141	149	159	158	156	160	159	159	165	161	159	165	160	158	155	149	147	154	149	3672.	24
28	152	152	148	146	147	148	153	158	160	159	154	150	150%	154%	153	159	161	162	162	157	153	152	150	149	3688.	24
29	147	146	144	144	144	147	150	158	158	160	159	160	161%	163%	159	157	157	155	154	153	151	147	152	151	3677.	24
30	151	152	148	150	151	149	151	152	152	155	152	140	141	135	141	143	143	150	150	147	144	145	144	145	3532.	24
31	145	144	144	144	144	144	153%	146	148	148	146	147	149	149	149	148	148	148	147	155%	146	147	147	147	3540.	24
AV	145	145	144	143	143	144	150	154	155	155	153	150	152	152	153	156	158	158	158	154	150	149	148	147	3616.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 40.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 7						
		ULTRAVIOLET KJ/M2																										
D A Y	H R	HOUR																								TOTL	HR	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	7	33	84	70	98	71	103	110	56	32	30	10	5*	0	0	0	0	0	0	687.	24	
2	0	0	0	0	0	0	1*	1	9	12	41	55	47	79	57	37	48	45	8	0	0	0	0	0	0	439.	24	
3	0	0	0	0	0	0	0	4	24	70	77	87	84	73	56*	38	45	34	11	0	0	0	0	0	0	585.	24	
4	0	0	0	0	0	0	8	27	59	65	102	146	118	160	93	94	80	40	23	1	0	0	0	0	0	1016.	24	
5	0	0	0	0	0	0	5	19	54	62	120	121	122	125	30	85	59	28	12	0	0	0	0	0	0	839.	24	
6	0	0	0	0	0	0	2	17	47	66	104	138	93	124	30	40	8	17	1	0	0	0	0	0	0	887.	24	
7	0	0	0	0	0	0	13	44	81*	117	147	161	158	128	98	80	71	28	8	0	0	0	0	0	0	1132.	24	
8	0	0	0	0	0	0	12	42	79	114	147	162	175	165	137	115	83	49	19	1	0	0	0	0	0	1298.	24	
9	0	0	0	0	0	0	7	27	56	94	117	145	163	152	143	111	85	51	20	0	0	0	0	0	0	1171.	24	
10	0	0	0	0	0	0	9	34	69	103	126	149	157	150	109	100	68	45	19	0	0	0	0	0	0	1139.	24	
11	0	0	0	0	0	0	10	34	63	93	112	127	148	150	129	93	57	35	7	0	0	0	0	0	0	1057.	24	
12	0	0	0	0	0	0	9	31	58	88	104	117	141	136	132	105	78	48	15	0	0	0	0	0	0	1061.	24	
13	0	0	0	0	0	0	8	33	82	101	128	142	142	127	122	104	79	45	18	0	0	0	0	0	0	1111.	24	
14	0	0	0	0	0	0	6	27	68	107	134	152	162	143	132	106	74	43	18	0	0	0	0	0	0	1173.	24	
15	0	0	0	0	0	0	7	31	62	103	120	143	141	152	47	67	39	22	4	0	0	0	0	0	0	940.	24	
16	0	0	0	0	0	0	9	36	71	102	118	114	119	156	151	119	85	52	20	0	0	0	0	0	0	1150.	24	
17	0	0	0	0	0	0	10	36	67	104	133	138	123	118	103	93	69	41	7	0	0	0	0	0	0	1041.	24	
18	0	0	0	0	0	0	7	35	71	94	103	154	156	142	113	89	72	45	19	0	0	0	0	0	0	1100.	24	
19	0	0	0	0	0	0	8	34	66	100	124	116	111	132	115	97	73	47	16*	0*	0	0	0	0	0	1040.	24	
20	0	0	0	0	0	0	7	31	60	91	110	123	123	85	129	103	73	49	21	0	0	0	0	0	0	1004.	24	
21	0	0	0	0	0	0	10	40	77	116	147	172	175	166	145	113	85	50	19	0	0	0	0	0	0	1317.	24	
22	0	0	0	0	0	0	8	36	70	106	138	170	178	164	144	122	88	50	20	0	0	0	0	0	0	1295.	24	
23	0	0	0	0	0	0	9	37	72	108	137	159	166	164	132	104	78	45	17	0	0	0	0	0	0	1227.	24	
24	0	0	0	0	0	0	7	31	64	97	113	142	142	136	72	68	51	32	13	0	0	0	0	0	0	967.	24	
25	0	0	0	0	0	0	3	16	63	94	124	145	82	65	102	81	74	43	19	0	0	0	0	0	0	912.	24	
26	0	0	0	0	0	0	7	32	59	91	115	137	141	122	98	48	15	13	14	0	0	0	0	0	0	893.	24	
27	0	0	0	0	0	0	6	32	48	69	88	116	129	93	107	98	62	35	17	0	0	0	0	0	0	902.	24	
28	0	0	0	0	0	0	6	34	67	103	136	154	140	139	138	107	77	42	13	0	0	0	0	0	0	1156.	24	
29	0	0	0	0	0	0	7	33	53	58	82	96	168	133	72	16	7	1	3	0	0	0	0	0	0	729.	24	
30	0	0	0	0	0	0	2	17	43	32	45	138	133	125	134	109	80	32	12	0	0	0	0	0	0	900.	24	
31	0	0	0	0	0	0	1*	2	12	17	22	39	41	42	40	31	23	15	1	0	0	0	0	0	0	285.	24	
AV	0	0	0	0	0	0	7	29	59	85	110	129	132	128	102	84	82	36	13	0	0	0	0	0	0	978.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 41.

ATLANTA (GA TECH) YEAR 1981 MONTH 7

AVAILABLE SUNSHINE %

D A Y	HOUR																								AVG	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0%	0%	37%	94	9	24	14%	32%	27%	0	0	0	0	0	0%	0	0	0	0	17. 24	
2	0	0	0	0	0	0%	0	0	0%	0%	0	0	0	1%	0	0	4	6	0	0%	0	0	0	0	1. 24	
3	0	0	0	0	0	0%	0	0	0%	1	1	0	0%	2%	0	0	0	0	0	0%	0	0	0	0	0. 24	
4	0	0	0	0	0	0%	0	0%	9%	5	26	69	30	92	16	47	63	26	15	0%	0	0	0	0	28. 24	
5	0	0	0	0	0	0%	0	0	16	18	49	35	31	48%	1	26	5	0	0	0%	0	0	0	0	16. 24	
6	0	0	0	0	0	0%	0	0	1	1	10	52	13	41	0	0	0	3	0	0%	0	0	0	0	9. 24	
7	0	0	0	0	0	0%	90	100%	100%	100	100	89	78	52	45	34	49	12	0	0%	0	0	0	0	60. 24	
8	0	0	0	0	0	0%	83	100	100	100	100	92	97	96	78	88	98	75	6	0%	0	0	0	0	77. 24	
9	0	0	0	0	0	0%	0	0	0	59	91	90	93	83	90	83	90	100	44	0%	0	0	0	0	58. 24	
10	0	0	0	0	0	0%	27	100	100	100	100	100	97	99	77	83	57	98	65	0%	0	0	0	0	78. 24	
11	0	0	0	0	0	0%	0	88	93	100	80	60	100	100	96	48	0	0	0	0%	0	0	0	0	53. 24	
12	0	0	0	0	0	0%	0	0	8	100	74	57	82	83	84	82	62	26	0	0%	0	0	0	0	47. 24	
13	0	0	0	0	0	0%	0	37	82	100	90	76	73	68	79	93	100	56	0	0%	0	0	0	0	61. 24	
14	0	0	0	0	0	0%	0	10	92	100	91	93	96	79	91	89	96	93	0	0%	0	0	0	0	66. 24	
15	0	0	0	0	0	0%	0	19	79	100	80	78	70	91	16	3	0	0	0	0%	0	0	0	0	38. 24	
16	0	0	0	0	0	0%	5	100	100	99	78	50	46	84%	96	95	97	99	76	0%	0	0	0	0	73. 24	
17	0	0	0	0	0	0%	58	100	100	100	90	72	50%	50%	43	67	89	75	0	0%	0	0	0	0	64. 24	
18	0	0	0	0	0	0%	2	26	76	44%	37	79	69%	69	56	50	47	73	11	0%	0	0	0	0	46. 24	
19	0	0	0	0	0	0%	0	63	100	100	91	53	56	66	71	66	80%	98	43	0%	0	0	0	0	63. 24	
20	0	0	0	0	0	0%	0	46	97	77	49%	53	46%	24	70	67	74	87	85	0%	0	0	0	0	56. 24	
21	0	0	0	0	0	0%	84	82	100	100	100	100	100	100	90	100	100	100	100	22%	0	0	0	0	89. 24	
22	0	0	0	0	0	0%	67	100	100	100	96	100	100	100	100	100	100	100	100	24%	0	0	0	0	92. 24	
23	0	0	0	0	0	0%	81	100	100	100	100	100	100	100	98	94	100	100	58	0%	0	0	0	0	87. 24	
24	0	0	0	0	0	0%	0	82	100	84	72	100	100	100	24	48	74%	37%	2	0%	0	0	0	0	59. 24	
25	0	0	0	0	0	0%	0	0	50	33	42	56	1	0	8	1	89	95	84	0%	0	0	0	0	32. 24	
26	0	0	0	0	0	0%	0	84	100	100	100	100	95	72	61	18	0	0	0%	0%	0	0	0	0	53. 24	
27	0	0	0	0	0	0%	0	77	18	2	2	21	23%	2	51	84	62	38	12	0%	0	0	0	0	28. 24	
28	0	0	0	0	0	0%	0	80	100	100	97	90	68	74	92	93	92	72	0	0%	0	0	0	0	69. 24	
29	0	0	0	0	0	0%	33	58	8	0	0	0	75	51	11	0	0	0	0	0%	0	0	0	0	17. 24	
30	0	0	0	0	0	0%	0	0	1	0	0	22	29	11	23	22	48	0	0	0%	0	0	0	0	12. 24	
31	0	0	0	0	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0	0	0	0. 24	
AV	0	0	0	0	0	0	15	47	62	62	60	61	60	60	51	51	54	47	22	2	0	0	0	0	47.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 0 - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 44.

Table 42.

ATLANTA (GA TECH) YEAR 1981 MONTH 8

DIRECT NORMAL KJ/M2

DAY	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	46	48	48	48	48	48	48	48	48	48	48	48	48	48	47	0	0	0	0	717.	24
2	0	0	0	0	0	46	48	48	48	48	48	48	48	48	48	48	48	48	48	47	0	0	0	0	3985.	24
3	0	0	0	0	0	46	48	48	75	308	1847	947	1323	1675	2019	1823	1621	1219	684	102	0	0	0	0	13785.	24
4	0	0	0	0	0	46	507	1385	2139	2441	2085	1962	727	737	2051	1556	131	52%	53	49	0	0	0	0	15920.	24
5	0	0	0	0	0	46	163	679	1283	1843	2361	1219	410	402	1374	1395	1467	1085%	281%	49	0	0	0	0	14059.	24
6	0	0	0	0	0	48	110	174	873	1582	903	522	625	1361	705	52	432%	873%	309%	49	0	0	0	0	8616.	24
7	0	0	0	0	0	46	137	884	1622	1458	1764	2261	2140	758	49	500	55	50	50	48	0	0	0	0	11821.	24
8	0	0	0	0	0	46	50	65	49	49	136	72	100	103	64	50	609%	342%	329%	61	0	0	0	0	2128.	24
9	0	0	0	0	0	46	254	462	153	376	454	1296	2008	794	467	1405%	490%	77	64	47	0	0	0	0	8391.	24
10	0	0	0	0	0	46	53	50	284	118	239	289	560	1527	865	204%	49	49	49	47	0	0	0	0	4428.	24
11	0	0	0	0	0	0	169	1049	1178	617	640	1626	779	87	117	95	49	49	58	47	0	0	0	0	6560.	24
12	0	0	0	0	0	0	70	145	1038	1393	1617	1850	1303	1336	1390	1704	1359	1227	576	61	0	0	0	0	15069.	24
13	0	0	0	0	0	0	49	117	799	881	976	1035	897	735	566	414	454	271	78	47	0	0	0	0	7319.	24
14	0	0	0	0	0	0	170	705	1151	555	1196	354	647	455	64	765	713	611%	233%	48	0	0	0	0	7666.	24
15	0	0	0	0	0	0	59	416	946	1229	1461	1343	1668	574	215	63	439	285%	51	47	0	0	0	0	8796.	24
16	0	0	0	0	0	0	94	619	868	1671	918	231	1167	491	62	140	195	49	49	24	0	0	0	0	99999.	*21
17	0	0	0	0	0	0	49	68	51	81	77	55	84	266	138	60	50	49	49	47	0	0	0	0	1120.	24
18	0	0	0	0	0	0	49	49	49	49	49	49	49	49	49	49	49	49	49	47	0	0	0	0	679.	24
19	0	0	0	0	0	0	50	48	56	632	234	1349	55	49	107	378	48	70	47	0	0	0	0	0	3172.	24
20	0	0	0	0	0	0	24	48	48	49	105	203	214	585%	49	48	48	48	48	46	0	0	0	0	1566.	24
21	0	0	0	0	0	0	48	48	48	202	84	187	56	48	48	48	48	48	48	46	0	0	0	0	1011.	24
22	0	0	0	0	0	0	522	1693	2440	2762	2080	1564	976	1712%	1778%	1212%	1176%	48	65%	47	0	0	0	0	18074.	24
23	0	0	0	0	0	0	48	93	122	48	50	70	125	48	52	72	674%	898%	491%	46	0	0	0	0	2839.	24
24	0	0	0	0	0	0	204	936	1484	1802	2091	2105	1220	1228	1163	50	241	377	371	46	0	0	0	0	13317.	24
25	0	0	0	0	0	0	155%	928	1296	1226	1922	1209	1683	1164	915	648	785	918	405	47	0	0	0	0	13298.	24
26	0	0	0	0	0	0	52	57	88	222	336	449	317	400	684	581	352	144	125	46	0	0	0	0	3853.	24
27	0	0	0	0	0	0	128	478	808	1667	1859	1837	1753	1205	1203	1303	1300	657	268	46	0	0	0	0	14608.	24
28	0	0	0	0	0	0	105	223	1020	1532	1689	1856	1844	652	509	104	68	100	90	46	0	0	0	0	9839.	24
29	0	0	0	0	0	0	48	49	49	49	49	49	64	219	411	227	120	233	411	46	0	0	0	0	2023.	24
30	0	0	0	0	0	0	48	49	49	57	184	399	770	1101	1433	2143	738%	871%	467	46	0	0	0	0	8354.	24
31	0	0	0	0	0	0	381	501	49	315	949	1020	247	137	1946	1772	356	359	255	46	0	0	0	0	8331.	24
AV	0	0	0	0	0	15	127	392	655	816	918	887	771	649	713	676	492	362	199	49	0	0	0	0	7723.	\$
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	741	

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 FLAGS:

- X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 43.

		ATLANTA (GA TECH)											YEAR 1981											MONTH 8			
		DIRECT (RQ630) KJ/M2																									
D A Y	1	2	3	4	5	6	7	8	9	10	11	HOUR		14	15	16	17	18	19	20	21	22	23	24	TOTL	HR	
												12	13														
1	0	0	0	0	0	1	6	6	6	6	5	6	6	6	6	6	6	6	5	4	0	0	0	0	77.	24	
2	0	0	0	0	0	1	6	6	6	6	6	6	6	89	568	1105	297	44	5	4	0	0	0	0	2156.	24	
3	0	0	0	0	0	1	5	6	22	187	1187	619	894	1168	1365	1282	1203	980%	615%	67%	0	0	0	0	9604.	24	
4	0	0	0	0	0	1	365	956	1378	1520	1271	1221	464	480	1360	1047	74%	5%	10%	3	0	0	0	10921.	\$22		
5	0	0	0	0	0	1	123	510	878	1190	1469	748	232	256	986	988	1077	861%	143%	3	0	0	0	9093.	\$22		
6	0	0	0	0	0	1	70	117	823	1102	642	373%	428	939	483	5	335%	67%	85%	3	0	0	0	5506.	\$22		
7	0	0	0	0	0	1	5#9999#	1174#	1074#	1#9999#	9999#	9999#	3#	4#	4#	4#	4#	4#	4#	2#	0	0	0	0	99999.	#10	
8	0	0	0	0	0	0#	4#	4#	4#	4#	4#	3#	3#	3#	4#	3#	3#	3#	3#	2	0	0	0	0	99999.	#10	
9	0	0	0	0	0	0#	4#	3#	4#	4#	3#9999#	9999#	3#	3#	3#	3#	3#	3#	3#	2#	0	0	0	0	99999.	#9	
10	0	0	0	0	0	0	4	4	169	55	137	169	350	965#	222#	3#	3	3	3	1	0	0	0	0	99999.	#21	
11	0	0	0	0	0	0	3#9999#	807#	417	414	1090	521	29	53	40	3	3	17	1	0	0	0	0	0	99999.	#21	
12	0	0	0	0	0	0	3	368%	733	964	1092	1258	914	967	1037%	1224	1018	991%	540%	23	0	0	0	0	10319.	\$22	
13	0	0	0	0	0	0	3	68	645%	704%	774%	812%	668%	537%	418%	301%	8#	80#	41#	1	0	0	0	0	99999.	#21	
14	0	0	0	0	0	0	130%	593%	917%	412%	883%	244%	479%	318%	11%	627#	593#	9999#	100#	6	0	0	0	0	99999.	#20	
15	0	0	0	0	0	0	27	357%	768%	954%	1058	930#	1#	3#	3#	3#	2#	3#	3#	1	0	0	0	0	99999.	#16	
16	0	0	0	0	0	0	3#	3#	2#9999#	2#	2#	1#	2#	2#	3#	3#	3#	3#	1#	0	0	0	0	0	99999.	#10	
17	0	0	0	0	0	0	3#	3#	3#	3#	3#	3#	3#	3#	3#	3#	3#	3#	3#	1#	0	0	0	0	99999.	#10	
18	0	0	0	0	0	0	6	6	7	6	4	4	10	6	7	3	3	3	3	1	0	0	0	0	67.	24	
19	0	0	0	0	0	0	7	3	8	398	125	836	6	5	4	45	230	3	28	1	0	0	0	0	1698.	24	
20	0	0	0	0	0	0	1#	3	3	3	36	95	95	324	4	3	3	3	3	1	0	0	0	0	576.	24	
21	0	0	0	0	0	0	3	3	3	94	25	82	8	3	3	3	3	3	3	1	0	0	0	0	233.	24	
22	0	0	0	0	0	0	415%	1168	1519	1663	1221	888	555	984	1066	788	771	2	30%	4	0	0	0	0	11054.	24	
23	0	0	0	0	0	0	3	44	64	3	5	19	51	3	10	24	461%	851#	289#	5	0	0	0	0	742.	\$22	
24	0	0	0	0	0	0	379%	757	1111	1283	1375#	1#	2#	2#	890#	4#	4#	4#	4#	1	0	0	0	0	99999.	#15	
25	0	0	0	0	0	0	346%	692	939	836	1282	803	1110	757	628	473%	601%	755%	351%	3	0	0	0	0	9574.	24	
26	0	0	0	0	0	0	9	13	42	152%	239%	325%	214%	288%	536%	455%	179%	90%	100%	1	0	0	0	0	2441.	\$22	
27	0	0	0	0	0	0	85	400%	705%	1201	1301	1286	1211	819	826	953	987	539%	233%	1	0	0	0	0	10548.	24	
28	0	0	0	0	0	0	63	157	683	978	1018	1110	1105	375	301	42	20	53	45	1	0	0	0	0	5952.	24	
29	0	0	0	0	0	0	3	4	4	4	4	4	13	110	232	122	55	170%	363%	1	0	0	0	0	1088.	24	
30	0	0	0	0	0	0	3	4	4	8	80	219	450	666%	883	1430	561%	719%	385%	1	0	0	0	0	5412.	24	
31	0	0	0	0	0	0	259	342	4	159	554	608	129	59	1236	1116	208	254	195	0	0	0	0	0	5124.	24	
AV	0	0	0	0	0	0\$	94\$	263\$	450\$	550\$	593\$	534\$	413\$	400\$	523\$	523\$	377\$	213\$	140\$	5\$	0	0	0	0	5079.	\$	
HR	31	31	31	31	31	29	25	25	25	28	25	24	24	23	23	21	21	17	17	27	31	31	31	31	631		

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 B - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 44.

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 8	
		GLOBAL HORIZ. KJ/M2																											
D A Y	HOUR																								T O T L	H R			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	1	31	101	166%	197%	319	424%	589	718	463%	494%	305%	172%	44	5	0	0	0	0	0	4029.	24		
2	0	0	0	0	0	1	17	192%	810%	1003%	1195%	1544%	1269%	1182%	2450%	2298%	1157	489	96	10	0	0	0	0	0	13712.	24		
3	0	0	0	0	0	0	1	104%	355%	849%	1343	2686	2350	2807	3137	3014	2523	1879	1088	382	23	0	0	0	0	22539.	24		
4	0	0	0	0	0	0	1	183	739	1528	2172	2407	2909	1733	1605	2868	2145	543	419	160	15	0	0	0	0	19429.	24		
5	0	0	0	0	0	0	1	126	649	1345	2087	2747	2147	1456	1661	2488	2172	1810	1181	358	3	0	0	0	0	20232.	24		
6	0	0	0	0	0	0	1	152	462	1254	2069	2353	2019	2334	2802	1747	180	1248	1150	394	17	0	0	0	0	18181.	24		
7	0	0	0	0	0	0	1	139	701	1467	1997	2455	3089	3366	1675	109	1460%	534	229	94	3	0	0	0	0	17318.	24		
8	0	0	0	0	0	0	1	36	528	536	654	1261	1154	1068	831	775	701	1233	615	475	40	0	0	0	0	9906.	24		
9	0	0	0	0	0	0	1	319%	638	937	1426	2081	2881	3341	2115	1863	2299	1222	652	338	16	0	0	0	0	20128.	24		
10	0	0	0	0	0	0	1	66	244	1004	1134	2097	2345	2458	2878%	1317%	267%	11	52	144	6	0	0	0	0	14023.	24		
11	0	0	0	0	0	0	0	139	755	1381	1562	1758	2885	2268	927	972	754	431	149	19	5	0	0	0	0	14006.	24		
12	0	0	0	0	0	0	0	95	439	1279	1941	2504	2850	2633	2636	2497	2174	1670	1049	416	17	0	0	0	0	22202.	24		
13	0	0	0	0	0	0	0	71	475	1197	1675	2190	2542	2499	2211	1784	1370	1104	622	172	4	0	0	0	0	17915.	24		
14	0	0	0	0	0	0	0	122	607	1234	1214	2267	1519	1966	1542	857	1803	1298	781	257	14	0	0	0	0	15480.	24		
15	0	0	0	0	0	0	0	92	518	1239	1948	2491	2731	3122	1550	885	381	1306	655	200	7	0	0	0	0	17125.	24		
16	0	0	0	0	0	0	0	120	635	1160	2041	2229	1761	2472	1740	721%	836%	1098%	488	95	48%	0	0	0	0	99999.	21		
17	0	0	0	0	0	0	0	82	465	767	1063	1380	1228	1506	2292	1657	1301	725	173	72	3	0	0	0	0	12916.	24		
18	0	0	0	0	0	0	0	36	129	197	282	362	432	488	1037	728	699	414	180	48	3	0	0	0	0	5035.	24		
19	0	0	0	0	0	0	0	54	251	792	1876	1979	3082	1670	1280	1391	1217	1210	465	140	5	0	0	0	0	15411.	24		
20	0	0	0	0	0	0	0	114%	229	501	1009	1784	1892	1822	2327	1087	615	354	392	163	3	0	0	0	0	12292.	24		
21	0	0	0	0	0	0	0	7	148	839	1350	1522	1965	1018	544	518	601	772	273	101	7	0	0	0	0	9465.	24		
22	0	0	0	0	0	0	0	133	727	1485	2211	2583	3286	2466	3077	2842	1982	1411	350	141	2	0	0	0	0	22696.	24		
23	0	0	0	0	0	0	0	103	468	891	712	1085	1450	1631	937	1089	1026	1207	897	224	3	0	0	0	0	11724.	24		
24	0	0	0	0	0	0	0	110	609	1309	1976	2611	3021	2357	2422	2162	344	644	546	213	3	0	0	0	0	18328.	24		
25	0	0	0	0	0	0	0	92	623	1258	1848	2596	2294	2970	2732	2326	1525	1363	795	236	5	0	0	0	0	20666.	24		
26	0	0	0	0	0	0	0	85	405	917	1365	1902%	2440	2359	2205	2257	1744	1153	443	171	2	0	0	0	0	17448.	24		
27	0	0	0	0	0	0	0	94	536	1220	2000	2607	3018	3184	2657	2510	2200	1521	920	280	4	0	0	0	0	22750.	24		
28	0	0	0	0	0	0	0	107	459	1240	1887	2287	2845	2996	2094	1712	983	641	442	158	2	0	0	0	0	17853.	24		
29	0	0	0	0	0	0	0	48	263	630	949	925	885	1292	1112	1579	1180	697	475	200	2	0	0	0	0	10238.	24		
30	0	0	0	0	0	0	0	9	94	310	870	1831	1910	2192	2295%	2398	2384	1330	695	188	2	0	0	0	0	16408.	24		
31	0	0	0	0	0	0	0	118	481	635	1398	2056	2318	1268	1091	2675	2089	664	614	228	1	0	0	0	0	15636.	24		
AV	0	0	0	0	0	0	97	449	973	1460	1953	2168	2084	1849	1707%	1364%	992%	563	200	9	0	0	0	0	0	15869.	\$		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	741			

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \* - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 45.

		ATLANTA (GA TECH)																								YEAR 1981		MONTH #	
		GLOBAL (RG630) KJ/M2																											
D A Y	HOUR																								T O T L	H R			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	3	25	60	90	100	157	206	293	352	233	249	163	100	36	9	0	0	0	0	0	2076.	24		
2	0	0	0	0	0	1	16	109	456	555*	655	861	703	661	1402	1310	657	258	33	3	0	0	0	0	0	0	7879.	24	
3	0	0	0	0	0	2	61	202	498	761	1588	1385	1644	1865	1766	1494	1127	659	229	13	0	0	0	0	0	0	13293.	24	
4	0	0	0	0	0	1	111	458	925	1292	1406	1743	1019	922	1681	1275	310	221	96	10	0	0	0	0	0	0	11470.	24	
5	0	0	0	0	0	1	74	398	810	1240	1623	1248	797	915	1453	1255	1092	735	225	5	0	0	0	0	0	0	11868.	24	
6	0	0	0	0	0	1	94	277	745	1221	1361	1167	1341	1599	985	105	717	695	245	12	0	0	0	0	0	0	10565.	24	
7	0	0	0	0	0	1	85	431	881	1191	1434	1786	1978	952	55	821	310	139	70	6	0	0	0	0	0	0	10140.	24	
8	0	0	0	0	0	2	34	320	296	348	711	663	582	454	422	392	729	356	304	30	0	0	0	0	0	0	5643.	24	
9	0	0	0	0	0	1	203*	405	556	865	1262	1718	1980	1213	1069	1389	738	363	206	16	0	0	0	0	0	0	11983.	24	
10	0	0	0	0	0	1	55	149	595	648	1220	1359	1416	1680	743	142	9	36	95	7	0	0	0	0	0	0	8153.	24	
11	0	0	0	0	0	0	81	474	839	926	1028	1740	1313	490	536	415	242	95	27	7	0	0	0	0	0	0	8211.	24	
12	0	0	0	0	0	0	74	272	785	1183	1484	1704	1570	1578	1495	1285	994	637	259	11	0	0	0	0	0	0	13329.	24	
13	0	0	0	0	0	0	53	294	763	1065	1382	1586	1502	1342	1076	834	701	402	116	3	0	0	0	0	0	0	11119.	24	
14	0	0	0	0	0	0	86	400	798	736	1427	887	1188	929	498	1103	792	500	162	10	0	0	0	0	0	0	9516.	24	
15	0	0	0	0	0	0	66	334	782	1204	1488	1615	1857	910	528	213	798	403	126	7	0	0	0	0	0	0	10333.	24	
16	0	0	0	0	0	0	77	395	696	1236	1313	1003	1442	996	401*	473*	631*	283	81	30*	0	0	0	0	0	0	99999.	24	
17	0	0	0	0	0	0	50	269	443	608	789	695	860	1324	1061	736	408	99	48	3	0	0	0	0	0	0	7392.	24	
18	0	0	0	0	0	0	38	82	113	152	188	226	255	545	389	379	229	105	36	6	0	0	0	0	0	0	2740.	24	
19	0	0	0	0	0	0	43	150	458	1091	1127	1779	934	707	777	671	701	264	78	3	0	0	0	0	0	0	8784.	24	
20	0	0	0	0	0	0	68*	136	284	566	1001	1058	1024	1321	600	337	195	222	98	2	0	0	0	0	0	0	6912.	24	
21	0	0	0	0	0	0	7	94	367	769	864	1104	558	292	281	335	438	160	70	8	0	0	0	0	0	0	5347.	24	
22	0	0	0	0	0	0	86	468	896	1314	1512	1943	1421	1780	1651	1152	838	194	87	1	0	0	0	0	0	0	13353.	24	
23	0	0	0	0	0	0	75	292	529	406	621	829	940	528	619	582	702	537	139	4	0	0	0	0	0	0	6805.	24	
24	0	0	0	0	0	0	77	410	816	1217	1562	1783	1369	1398	1282	169	338	309*	121	1	0	0	0	0	0	0	10853.	24	
25	0	0	0	0	0	0	58	398	780	1131	1569	1372	1777	1626	1391	919	821	486	141	3	0	0	0	0	0	0	12472.	24	
26	0	0	0	0	0	0	60	247	538	820	1130*	1440	1394	1309	1339	1045	682	247	101	1	0	0	0	0	0	0	10351.	24	
27	0	0	0	0	0	0	56	333	747	1209	1552	1794	1880	1551	1483	1308	908	557	178	2	0	0	0	0	0	0	13559.	24	
28	0	0	0	0	0	0	66	280	750	1125	1335	1654	1747	1196	977	545	360	244	91	1	0	0	0	0	0	0	10371.	24	
29	0	0	0	0	0	0	29	147	351	524	498	468	702	621	890	652	361	267	121	1	0	0	0	0	0	0	5630.	24	
30	0	0	0	0	0	0	4	55	183	504	1048	1103	1260	991	1395	1399	729	418	110	1	0	0	0	0	0	0	9200.	24	
31	0	0	0	0	0	0	68	271	358	802	1198	1356	701	588	1559	1216	358	364	138	0	0	0	0	0	0	0	8977.	24	
AV	0	0	0	0	0	0	64	278	585	865	1146	1267	1208	1053	988*	791*	582*	334	124	7	0	0	0	0	0	0	9291.	8	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	741		

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 FLAGS:

- \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 46.

		ATLANTA (GA TECH)											YEAR 1981		MONTH 8		DIFFUSE HORIZ. KJ/M2									
D A Y	HOUR												13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12														
1	0	0	0	0	0	2	40	109	174	206	327	451	618	743	492	520	334	196	64	12	0	0	0	0	4287.	24
2	0	0	0	0	0	1	38	214	820	1002*	1184	1523	1272	1043	1600	906	898	512	129	27	0	0	0	0	11172.	24
3	0	0	0	0	0	3	116	365	833	1153	1189	1519	1592	1619	1308	1218	987	650	247	47%	0	0	0	0	12846.	24
4	0	0	0	0	0	2	128	314	471	550	765	1175	1113	995	1106	1009%	378%	473%	118	40%	0	0	0	0	8838.	24
5	0	0	0	0	0	3	128%	351%	591%	715%	705%	936%	1005%	1210%	1190	1018	868	685	270	27	0	0	0	0	9682.	24
6	0	0	0	0	0	3	162	447	822	1039	1661	1593	1779	1575	1175%	173	1013	820	373	33	0	0	0	0	12868.	24
7	0	0	0	0	0	2	148	450	881	1064	1035	1081	1375	1052	104	1118	579	268	124	11	0	0	0	0	9071.	24
8	0	0	0	0	0	1	56	535	551	665	1176	1135	1023	804	771	719	940	508	445	80%	0	0	0	0	9387.	24
9	0	0	0	0	0	1	258\$	515	886	1210	1735	1727	1470	1422	1496	1292	967	676	375	36%	0	0	0	0	14067.	24
10	0	0	0	0	0	1	90	265	894	1094	1917	2088	1947	1481	979%	260	11	52	143	17	0	0	0	0	11238.	24
11	0	0	0	0	0	0	125	451	813	1177	1268	1445	1569	916	933	734	459	183	51	14	0	0	0	0	10139.	24
12	0	0	0	0	0	0	116	424	760	1025	1222	1228	1442	1431	1345	965	924	603	337	31	0	0	0	0	11653.	24
13	0	0	0	0	0	0	85	454	828	1124	1443	1656	1699	1588	1370	1124	897	559	202%	14	0	0	0	0	13043.	24
14	0	0	0	0	0	0	120	430	709	899	1331	1247	1394	1178	866	1246	910	595	253	26%	0	0	0	0	11205.	24
15	0	0	0	0	0	0	101	435	820	1188	1357	1558	1593	1086%	708%	377	1038	579	232	17	0	0	0	0	11087.	24
16	0	0	0	0	0	0	130	442	820%	983	1539	1583	1385	1316	730*	754*	957*	506	118	59\$	0	0	0	0	99999.	21
17	0	0	0	0	0	0	102	473	761	1032	1338	1216	1454	2031	1734	1281	737	195	90	5	0	0	0	0	12448.	24
18	0	0	0	0	0	0	36	127	191	274	356	433	477	1016	720	892	415	183	50	3	0	0	0	0	4972.	24
19	0	0	0	0	0	0	55	249	778	1434	1787	1845	1650	1274	1377	1157	990	472	146	8	0	0	0	0	13221.	24
20	0	0	0	0	0	0	114\$	227	498	999	1691	1715	1645	1789	1094	629	369%	403	178	6	0	0	0	0	11355.	24
21	0	0	0	0	0	0	15	173	659	1221	1472	1809	1013	557	529	609	780	292	116	10	0	0	0	0	9257.	24
22	0	0	0	0	0	0	75	266%	328	443	974	1887	1562	1488%	1349%	1087%	747	384	162	7	0	0	0	0	10739.	24
23	0	0	0	0	0	0	112	462	865	723	1086	1412	1545	960	1088	1012	843%	603%	168	9	0	0	0	0	10688.	24
24	0	0	0	0	0	0	82	382	623%	827	1008	1197	1279	1351	1261	365	530	449	179	5	0	0	0	0	9541.	24
25	0	0	0	0	0	0	83	383	682	1077	1113	1274	1465	1712	1612	1122	979	524	208	12	0	0	0	0	12247.	24
26	0	0	0	0	0	0	96	402	897	1243	1651\$	2060	2086	1876	1720	1378	1006	440	183	5	0	0	0	0	15042.	24
27	0	0	0	0	0	0	84	420	791	949	1175	1443	1610	1593	1548	1331	851	720	268	7	0	0	0	0	12790.	24
28	0	0	0	0	0	0	99	418	758	925	979	1244	1345	1547	1322	970	656	449	176	3	0	0	0	0	10892.	24
29	0	0	0	0	0	0	60	285	830	948	927	893	1266	875	1260	1067	681	450	165	3	0	0	0	0	9580.	24
30	0	0	0	0	0	0	9	103	354	898	1698	1589	1523	1258%	1270	900	843	440	155	2	0	0	0	0	11043.	34
31	0	0	0	0	0	0	66	367	632	1208	1343	1445	1095	1029	1134	806	509	548	223	2	0	0	0	0	10508.	24
AV	0	0	0	0	0	1	94	352	875	945	1241	1400	1398	1288	1149\$	906\$	738\$	484	192	18	0	0	0	0	10857.	\$
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	741	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 47.

		ATLANTA (GA TECH)												YEAR 1981		MONTH 8											
		LAT. TILTED KJ/M2																									
D A Y	HOOR																								TOTT HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		TOTT	HR
1	0	0	0	0	0	2	16	64	121	149	266	374	533	618	392	412	264	143	33	7	0	0	0	0	3392.	24	
2	0	0	0	0	0	2	19	168	702	867	1032	1328	1044	1119	2265	2138	1022	391	75	7	0	0	0	0	12177.	24	
3	0	0	0	0	0	2	75	284	704	1188	2524	2185	2682	3028	2882	2325	1637	857	238	16	0	0	0	0	20827.	24	
4	0	0	0	0	0	2	84	485	1233	1941	2255	2786	1648	1494	2700	1946	503	349	132	31	0	0	0	0	17587.	24	
5	0	0	0	0	0	6	76	469	1112	1889	2610	2058	1348	1556	2361	1988	1549	917	251	25	0	0	0	0	18215.	24	
6	0	0	0	0	0	6	114%	363	1053	1675	2160	1863	2145	2728	1664	153	1046	942	280%	33	0	0	0	0	16424.	24	
7	0	0	0	0	0	6	102%	512	1230	1808	2356	3029	3283	1635	105	1310	439	169	80	8	0	0	0	0	16070.	24	
8	0	0	0	0	0	2	28	439	455	551	1149	1071	962	792	623	563	1093	513	335%	29	0	0	0	0	8604.	24	
9	0	0	0	0	0	2	244%	486	811	1272	1894	2753	3315	2064	1774	2147	1089	601	270%	11	0	0	0	0	18732.	24	
10	0	0	0	0	0	1	47	202	852	990	1929	2177	2319	2769	1512M	125M	33	51	132	18	0	0	0	0	14386.	22	
11	0	0	0	0	0	3	95	542	1157	1416	1699	2800	2156	858	817	657	368	123	35	17	0	0	0	0	12744.	24	
12	0	0	0	0	0	0	87	354	1139	1810	2415	2829	2580	2609	2425	2098	1524	885	324%	21	0	0	0	0	21098.	24	
13	0	0	0	0	0	0	60	386	1027	1537	2083	2487	2458	2159	1690	1247	962	501	139	18	0	0	0	0	16753.	24	
14	0	0	0	0	0	0	87	465	1070	1086	2133	1433	1855	1501	743	1710	1183	644	191	18	0	0	0	0	14119.	24	
15	0	0	0	0	0	0	74	410	1082	1816	2404	2688	3094	1526%	842	299	1186	534	157	17	0	0	0	0	16129.	24	
16	0	0	0	0	0	0	92	504	1036	1937	2077	1620	2453	1627	579M	682M	950M	381	84	42%	0	0	0	0	99999.	21	
17	0	0	0	0	0	0	80	379	641	900	1193	1070	1361	2161	1689	1137	603	133	73	17	0	0	0	0	11436.	24	
18	0	0	0	0	0	0	41	89	147	221	292	365	399	874	854	600	343	143	47	17	0	0	0	0	4232.	24	
19	0	0	0	0	0	0	47	195	668	1760	1841	3063	1517	1097	1259	1114	1069	387	100	16	0	0	0	0	14135.	24	
20	0	0	0	0	0	0	89%	179	420	866	1523	1694	1736	2257	966	562	314	321	132	16	0	0	0	0	11175.	24	
21	0	0	0	0	0	0	43	135	557	1213	1386	1814	684	450	440	497	677	225	72	16	0	0	0	0	8388.	24	
22	0	0	0	0	0	0	81	556	1358	2175	2563	3284	2495	3198	2858	1951	1292	310	106	15	0	0	0	0	22218.	24	
23	0	0	0	0	0	0	92	391	755	599	929	1294	1524	803	963	901	1087	761	159	14	0	0	0	0	10270.	24	
24	0	0	0	0	0	0	87	482	1156	1955	2667	3132	2395	2419	2172	332	540	437	159	14	0	0	0	0	17948.	24	
25	0	0	0	0	0	0	76	516	1194	1803	2633	2370	3082	2721	2252	1463	1297	702	183	15	0	0	0	0	20308.	24	
26	0	0	0	0	0	0	79	330	799	1256	1840	2424	2275	2118	2215	1888	1076	415	142	15	0	0	0	0	16671.	24	
27	0	0	0	0	0	0	84	446	1132	1995	2686	3163	3355	2789	2583	2215	1475	817	215	15	0	0	0	0	22969.	24	
28	0	0	0	0	0	0	93	403	1135	1881	2352	2900	3096	2072	1638	693	584	390	138	14	0	0	0	0	17598.	24	
29	0	0	0	0	0	0	67%	208	521	810	807	734	1122	1012	1570	1104	652	439	159	12	0	0	0	0	9216.	24	
30	0	0	0	0	0	0	50	101	273	782	1675	1821	2057	1754	2470	2415	1157	615	152	9	0	0	0	0	15329.	24	
31	0	0	0	0	0	0	83	392	522	1309	2048	2273	1219	1022	2787	2073	605	545	187	7	0	0	0	0	15071.	24	
AV	0	0	0	0	0	1	77	353	841	1344	1855	2092	2013	1789	1648	1308	889	472	154	17	0	0	0	0	14832.	\$	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	29	29	30	31	31	31	31	31	31	31	739		

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 B - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 48.

		ATLANTA (GA TECH)												YEAR 1981												MONTH 8			
		INFRARED 10 KJ/M2																											
D A Y	HOUR																									TOTL	HR		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1		147	146	147	146	145	146	146	147	148	149	150	150	149	149	150	150	151	152	151	150	157	148	148	147	3569.	24		
2		147	147	147	147	148	148	150	151	150	151	152	152	154	154	138	141	154	153	148	149	140	138	141	147	3546.	24		
3		144	147	139	138	136	144	151	155	156	150	142	145	144	144	141	147	152	155	153	147	144	145	144	142	3505.	24		
4		141	139	138	137	137	137	143%	151	153	152	148	146	157	159	150	158	172%	170%	167	157	152	148	148	147	3608.	24		
5		147	145	144	142	142	142	145	152	156	154	152	155	161	167%	155	158	164	168	163	157%	153	156	149	149	3676.	24		
6		148	145	144	143	143	142	148	152	152	154	152	166%	157	148	147	158	154	159	158	160	156	152	149	143	3624.	24		
7		143	144	149	145	143	144	148	151	152	153	149%	144	161%	158	158%	149	154	156	156	150	148	148	146	145	3593.	24		
8		149	150	152	152	152	154	155	156	155	153	157	156	155	155	156	154	152	153	151	150	145	145	144	3653.	24			
9		144	142	143	147	144	143	146	149	150	155	154	146	140	145	155	153	161	156	155	151	151	149	148	147	3571.	24		
10		151	152	147%	140%	139%	141%	151	153	145%	155	152	153	152	140%	163	157	154	151	150	147	146	144	148	144	3572.	24		
11		141	141	141	140	141	144	144	152	154	155	155	148%	155	156	156	152%	152	154	155	147	144	144	146	140	3559.	24		
12		141	145	145	144	143	147	149	149	148	147	144	140	157%	147	147	148	153	153	153	147	146	143	141	141	3519.	24		
13		141	140	136	135	141	143	145	146	147	147	146	145	147	150	153	156	155	156	154	149	144	143	142%	140%	3500.	24		
14	139%	136%	137%	136	137	136	139	146	152	153	152	157	151%	157%	161	150	153	153	152	147	145	142%	141%	141	141	3512.	24		
15	139	137%	140%	139%	138%	137%	141	146	151	152	147	148	144	150%	156	156%	155	155	154	153	151	149	151	149	149	3535.	24		
16	145	144	143	143	144	144	146	152	153	155	155	158	151	155%	161M	156M	153M	154	164	159%	155	152	151	148	3644.	24			
17	145	147	145	145	145	147	151	152	153	154	156	158	157	149	154	158	158	157	155	153	151	151	150	150	150	3642.	24		
18	149	148	148	147	148	148	149	149	149	148	148	148	148	147	148	150	150	150	149	148	148	147	147	148	148	3558.	24		
19	147	146	146	146	146	146	147	148	149	146	147	149%	150	151	149	147	151	154	151	153	151	150	148	146	3564.	24			
20	145	144	135	135	138	140	143	147	148	151	152	153	154%	146	157	164%	169%	153	162%	153	153	151	151	150	3595.	24			
21	150	149	151	157	158	156%	149	148	148	147	150	150	152	151	151	152	151	150	148	145	143	142	140	140	3576.	24			
22	135	127	125	127	132	134	130	142	146	144	142	152%	144	138	139	147	151	152	145	139	141	139	137	138	3348.	24			
23	138	138	139	138	133	135	138	142	148	148	148	149	152	155	152	150	146	146	139	135	132	132	130	129	3391.	24			
24	128	128	127	127	133	129	132	140	147	148	146	144	151	144	158%	157	147	149	146	141	140	138	137	135	3373.	24			
25	134	133	132%	131%	131	131	134	144	149	151	148	142	146	149	153	156	154	151	147	144	155%	141	141%	144	3440.	24			
26	142	138	138	144	147	143	141	146	146	150	149%	147	153	153	148	151	156%	146	142	137	134	134	132	131	3446.	24			
27	130	126	127	127	126	124	128	137	141	143	140	138	147%	139	142	141	141	143	140	138	135	131	131	129	3247.	24			
28	129	129	127	126	125	124	126	135	142	145	143	138	151%	146	153	156	156	150	146	146	151	150	144	157%	3395.	24			
29	141	142	142	149	143	143	144	150	154	156	156	157	157	158	155	156	154	154	147	142	146	148	148	147	3588.	24			
30	145	146	147	146	148	146	148	151	155	155	152	164%	164%	161%	146	147	154	150	147	141	140	139	139	137	3566.	24			
31	136	135	135	133	133	132	135	146	154	154	152	148	156	157	146	150	152	154	150	143	143	142	142	144	3473.	24			
AV	142	141	140	140	141	141	143	148	150	151	149	150	152	151	151	152	154	153	152	148	147	145	144	143	3528.	s			
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	741				

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 49.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 8						
		ULTRAVIOLET KJ/M2																										
D A Y	1	2	3	4	5	6	7	8	9	10	11	HOUR											24	TOTL	HR			
												12	13	14	15	16	17	18	19	20	21	22				23		
1	0	0	0	0	0	0	0	5	10	13	24	35	47	56	36	37	22	11	0	0	0	0	0	0	0	0	297.	24
2	0	0	0	0	0	0	0	0	12	47	62\$	78	97	80	69	132	121	63	34%	13%	0	0	0	0	0	0	809.	24
3	0	0	0	0	0	0	0	4	18	45	79	132	116	139	147	143	114	80	46	18	0	0	0	0	0	0	1082.	24
4	0	0	0	0	0	0	0	8	34	70	101	120	131	84	82	129	92	30	27	6	0	0	0	0	0	0	914.	24
5	0	0	0	0	0	0	0	6	31	64	99	129	108	85	94	114	99	69	36	10	0	0	0	0	0	0	944.	24
6	0	0	0	0	0	0	0	6	24	62	102	120	103	120	142	91	12	65	47	13	0	0	0	0	0	0	907.	24
7	0	0	0	0	0	0	0	6	33	71	100	130	160	166	93	10%	84	36	14	5	0	0	0	0	0	0	908.	24
8	0	0	0	0	0	0	0	1	26	33	45	80	68	71	55	51	45	62	33	16	0	0	0	0	0	0	586.	24
9	0	0	0	0	0	0	0	15\$	31	55	74	101	139	163	115	99	100	53	36	13	0	0	0	0	0	0	994.	24
10	0	0	0	0	0	0	0	2	14	54	67	112	123	130	139	71	18	1	4	9	0	0	0	0	0	0	745.	24
11	0	0	0	0	0	0	0	6	35	66	82	96	134	117	63	64	47	29	11	0	0	0	0	0	0	0	751.	24
12	0	0	0	0	0	0	0	3	25	84	96	130	140	129	125	118	103	75	45	16	0	0	0	0	0	0	1068.	24
13	0	0	0	0	0	0	0	2	23	53	71	89	107	114	100	81	60	41	22	6	0	0	0	0	0	0	770.	24
14	0	0	0	0	0	0	0	5	27	53	59	95	79	93	74	45	79	56	30	10	0	0	0	0	0	0	702.	24
15	0	0	0	0	0	0	0	4	25	57	91	121	136	149	77	52	24	64	31	10	0	0	0	0	0	0	841.	24
16	0	0	0	0	0	0	0	5	30	59	99	112	101	131	93	47M	49M	57M	27	5	2\$	0	0	0	0	0	99999.	24
17	0	0	0	0	0	0	0	3	25	44	62	81	75	89	126	103	74	44%	12	3	0	0	0	0	0	0	740.	24
18	0	0	0	0	0	0	0	0	6	12	20	26	34	37	74	50	47	27	11	2	0	0	0	0	0	0	347.	24
19	0	0	0	0	0	0	0	2	14	44	101	113	168	101	81	89	78	60	26	8	0	0	0	0	0	0	884.	24
20	0	0	0	0	0	0	0	6\$	13	31	63	105	112	107	129	68	39	23	23	8	0	0	0	0	0	0	728.	24
21	0	0	0	0	0	0	0	0	11	42	84	95	119	69	40	36	39	47	17	5	0	0	0	0	0	0	604.	24
22	0	0	0	0	0	0	0	5	34	74	114	139	166	140	163	145	102	68	24	8	0	0	0	0	0	0	1183.	24
23	0	0	0	0	0	0	0	3	25	49	45	67	86	95	59	66	62	63	42	11	0	0	0	0	0	0	674.	24
24	0	0	0	0	0	0	0	3	28	62	95	128	152	126	128	109	22	44	31	9	0	0	0	0	0	0	935.	24
25	0	0	0	0	0	0	0	3	28	59	88	120	111	140	127	108	70	60	34	10	0	0	0	0	0	0	960.	24
26	0	0	0	0	0	0	0	2	18	47	69	96\$	123	118	110	110	82	54	27	9	0	0	0	0	0	0	865.	24
27	0	0	0	0	0	0	0	3	26	58	97	129	150	158	136	124	102	68	38	9	0	0	0	0	0	0	1097.	24
28	0	0	0	0	0	0	0	4	24	63	95	121	149	155	117	93	62	38	26	8	0	0	0	0	0	0	954.	24
29	0	0	0	0	0	0	0	1	15	38	58	59	59	81	67	89	72	48	26	9	0	0	0	0	0	0	622.	24
30	0	0	0	0	0	0	0	0	11%	24%	57	110	110	125	108	133	114	58	34	9	0	0	0	0	0	0	892.	24
31	0	0	0	0	0	0	0	3	26	38	81	112	121	84	75	134	100	43	28	9	0	0	0	0	0	0	853.	24
AV	0	0	0	0	0	0	4	22	50	76	102	113	111	99	90\$	70\$	50\$	28	9	0	0	0	0	0	0	0	824.\$	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	741	

56

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 50.

ATLANTA (GA TECH) YEAR 1981 MONTH 8

AVAILABLE SUNSHINE %

DAY	HOUR																								AVG	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.	24
3	0	0	0	0	0	0	0	0	1	17	88	50	66	89	93	95	100	100	53	0	0	0	0	0	0	0	55.	24
4	0	0	0	0	0	0	38	95	100	98	82%	79%	33%	34%	92	77%	2%	0%	0%	0	0	0	0	0	0	0	54.	24
5	0	0	0	0	0	0%	0%	39%	100	100	100	54%	18%	21%	80%	78	88	97%	5%	0%	0	0	0	0	0	0	58.	24
6	0	0	0	0	0	0%	0%	0%	63%	100	61%	41%	38%	74%	39%	0%	33%	68%	0%	0%	0	0	0	0	0	0	38.	24
7	0	0	0	0	0	0%	0%	65%	98	82	83	97	95	33%	0%	22%	0%	0%	0%	0%	0	0	0	0	0	0	43.	24
8	0	0	0	0	0	0%	0%	0%	0%	0%	4%	0%	3%	3%	2%	0%	43%	19%	0%	0%	0	0	0	0	0	0	5.	24
9	0	0	0	0	0	0%	0%	7%	5%	23%	25%	79	100	43%	27%	78%	26%	0%	0%	0%	0	0	0	0	0	0	31.	24
10	0	0	0	0	0	0%	0%	0%	13%	2%	6%	9%	30%	72%	3%	0%	0%	0%	0%	0%	0	0	0	0	0	0	10.	24
11	0	0	0	0	0	0	0%	77%	75%	36%	32%	83	41%	2%	4%	3%	0%	0%	0%	0%	0	0	0	0	0	0	26.	24
12	0	0	0	0	0	0	0%	7%	58%	77	80	86	65%	73%	81	88	84%	98	37%	0%	0	0	0	0	0	0	62.	24
13	0	0	0	0	0	0	0%	0%	55%	100	100	99	65%	52%	42%	33%	0%	0%	0%	0%	0	0	0	0	0	0	41.	24
14	0	0	0	0	0	0	0%	38%	100	41%	76%	22%	44%	28%	0%	56%	63%	2%	0%	0%	0	0	0	0	0	0	35.	24
15	0	0	0	0	0	0	0%	0%	94	100	100	87	90	32%	15%	0%	0%	0%	0%	0%	0	0	0	0	0	0	39.	24
16	0	0	0	0	0	0	0%	36%	67%	98	48%	11%	64%	27%	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0	99999.	21
17	0	0	0	0	0	0	0%	0%	0%	1%	0%	0%	0%	6%	5%	0%	0%	0%	0%	0%	0	0	0	0	0	0	1.	24
18	0	0	0	0	0	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0	0.	24
19	0	0	0	0	0	0	0%	0%	0%	30%	9%	68%	0%	0%	0%	2%	19%	0%	0%	0%	0	0	0	0	0	0	10.	24
20	0	0	0	0	0	0	0	0%	0%	0%	0%	0%	7%	6%	30%	0%	0%	0%	0%	0%	0	0	0	0	0	0	3.	24
21	0	0	0	0	0	0	0%	0%	0%	5%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0	1.	24
22	0	0	0	0	0	0	37%	100	100	100	82%	79	40%	89%	89%	55%	60%	0%	0%	0%	0	0	0	0	0	0	82.	24
23	0	0	0	0	0	0	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	34%	80%	20%	0%	0	0	0	0	0	0	9.	24
24	0	0	0	0	0	0	0%	68%	100	100	100	94	56%	57%	58%	0%	13%	19%	0%	0%	0	0	0	0	0	0	51.	24
25	0	0	0	0	0	0	0%	87%	98	99	98	67%	97	84	53%	43%	63%	100	5%	0%	0	0	0	0	0	0	67.	24
26	0	0	0	0	0	0	0%	0%	0%	4%	30	28%	15%	27%	61%	48%	6%	0%	0%	0%	0	0	0	0	0	0	17.	24
27	0	0	0	0	0	0	0%	0%	69%	100	100	100	97	78	82%	79%	93	43%	0%	0%	0	0	0	0	0	0	85.	24
28	0	0	0	0	0	0	0%	5%	81%	80%	78%	90	82	39%	28%	2%	0%	0%	0%	0%	0	0	0	0	0	0	36.	24
29	0	0	0	0	0	0	0%	0%	0%	0%	0%	0%	0%	10%	22%	12%	4%	18%	2%	0%	0	0	0	0	0	0	5.	24
30	0	0	0	0	0	0	0%	0%	0%	0%	7%	20%	31%	23%	59%	97	49%	86%	27%	0%	0	0	0	0	0	0	31.	24
31	0	0	0	0	0	0	28%	42%	0%	15%	45%	47%	11%	4%	87	79%	18%	22%	1%	0%	0	0	0	0	0	0	31.	24
AV	0	0	0	0	0	0	3	21	41	45	46	45	38	33	35	34	27	24	5	0	0	0	0	0	0	0	30.	8
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	741	

57

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 27.

Table 51.

ATLANTA (GA TECH) YEAR 1981 MONTH 9

DIRECT NORMAL KJ/M2

D A Y	HOUR																								T O T A L	H R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	4M	3M	20M	8M	3M	3	4	3	3	3	3	3	3	0	0	0	0	0	99999.#19	
2	0	0	0	0	0	0	23	486	763	278	778	1821	805%	887	1288	1373	690	422	46	0	0	0	0	0	9660. 24	
3	0	0	0	0	0	0	9	3	3	3	51	3	14	681	2195	622	54	91%	44	0	0	0	0	0	3773. 24	
4	0	0	0	0	0	0	4	3	41	28	3	3	181	212	3	73%	133%	3	3	0	0	0	0	0	670. 24	
5	0	0	0	0	0	0	2	3	24	125	6	13	45	770%	374%	1294%	1668%	1273%	301%	0	0	0	0	0	0	5900. 24
6	0	0	0	0	0	0	2	3%	518%	1983	1823	709%	1902%	1187%	1520%	1259%	1092%	464%	179%	0	0	0	0	0	0	12653. 24
7	0	0	0	0	0	0	2	3	581	896	1411	975	1196	1803	1162	1093	1498	689	39	0	0	0	0	0	0	11458. 24
8	0	0	0	0	0	0	21	664	1212	1424	762	241	482	1889	899	396	124	3	3	0	0	0	0	0	0	8119. 24
9	0	0	0	0	0	0	453	1858	2593	2934	3158	3125	2431%	2537	2248	1835	1078	1172	462	0	0	0	0	0	0	25986. 24
10	0	0	0	0	0	0	173	617	1076	2119	2511	2634	730	935%	1607	2188	858	1068	249	0	0	0	0	0	0	16764. 24
11	0	0	0	0	0	0	152	1129	1688	2044	2481	1712	1486	1942	2056	1309	880	429%	45	0	0	0	0	0	0	17473. 24
12	0	0	0	0	0	0	108	883	1686	1961	1181	512	713	366	478	507%	847%	407%	2	0	0	0	0	0	0	9651. 24
13	0	0	0	0	0	0	83	926	1648	1988	1994	2132	1632	1430	1405	1188	967	574	82	0	0	0	0	0	0	16059. 24
14	0	0	0	0	0	0	4	387	1614	2224	1523%	513%	577	1874	1186	985	118	20	2	0	0	0	0	0	0	11028. 24
15	0	0	0	0	0	0	2	15	131	555	243	120	75%	29	3	3	3	2	0	0	0	0	0	0	0	1183. 24
16	0	0	0	0	0	0	2M	3M	157M	206M	1530M	1982M	758M	931M	954	1419	538	222%	111%	0	0	0	0	0	0	99999.#16
17	0	0	0	0	0	0	166%	1228%	725	1809%	2761	3028	3104	3140	3062	2846	2355	1540	248	0	0	0	0	0	0	26009. 24
18	0	0	0	0	0	0	383%	2006	2815	3191	3300	3356	3237	3045	2432	2056	1203	1235	307	0	0	0	0	0	0	28567. 24
19	0	0	0	0	0	0	729%	1458	2120	2458	2635	2698	2699	2636	2514	2394	1867	988%	90%	0	0	0	0	0	0	25283. 24
20	0	0	0	0	0	0	71	676	1245	1827	2259	2406	2435	2399	2139	1948%	1512%	871%	58%	0	0	0	0	0	0	19845. 24
21	0	0	0	0	0	0	73	909	1487	2251	2730	2856	2851	2787	2709	2458	1978	1115	141	0	0	0	0	0	0	24345. 24
22	0	0	0	0	0	0	193	1467	2318	2580	2779	2935	3024	2980	2830	2600	2193	1326	142	0	0	0	0	0	0	27367. 24
23	0	0	0	0	0	0	75	241	1122	2167	2795	2977	3009%	33040	2959	2789	2331	1452	202	0	0	0	0	0	0	25158. 24
24	0	0	0	0	0	0	82	829	1478	2253	2574	2916%	2947	2935	2471	2398	1139	1165	582%	0	0	0	0	0	0	23869. 24
25	0	0	0	0	0	0	598%	1195	2025	2344	2572	2776%	2658%	2492	2245	1820	1212%	704	78	0	0	0	0	0	0	21884. 22
26	0	0	0	0	0	0	178	1478	2339	2753	3024	3124	3181	3137	2980	2661	1724	1388	87	0	0	0	0	0	0	28054. 24
27	0	0	0	0	0	0	116	1003	2100	2392	2618	2295	2707	2551	2417	2458	1274	662	55	0	0	0	0	0	0	22648. 24
28	0	0	0	0	0	0	83	1302	2175	2615	2975	3046	3096	3113	3042	2958	2694	1935	250%	0	0	0	0	0	0	29294. 24
29	0	0	0	0	0	0	232	1851	2572	2975	3188	3308	3337	3292	3166	2964	2570	1614	122	0	0	0	0	0	0	31191. 24
30	0	0	0	0	0	0	2	3%	3%	536	2261	2785	2707	2726	2763	2509	2264	1458	98	0	0	0	0	0	0	20115. 24
AV	0	0	0	0	0	0	144%	815%	1381%	1815%	2014%	1866%	1807%	1960%	1837	1680	1233	810	134	0	0	0	0	0	0	17478. \$
HR	30	30	30	30	30	30	28	28	28	28	28	28	28	28	29	30	30	30	30	30	30	30	30	30	30	705

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 52.

		ATLANTA (GA TECH)										YEAR 1981			MONTH 9													
		DIRECT (RQ630) KJ/M2																										
		HOUR																										
D	Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR	
1	0	0	0	0	0	0	0	6M	4M	13M	5M	4M	4	4	4	4	4	4	4	4	0	0	0	0	0	99999.M19		
2	0	0	0	0	0	0	0	23	329	489	168	498	1137	487%	535	810	868	444	318	48	0	0	0	0	0	6165. 24		
3	0	0	0	0	0	0	0	11	4	4	4	26	4	9	410	1324	378	40	308	19	0	0	0	0	0	2263. 24		
4	0	0	0	0	0	0	0	5	4	31	20	4	4	102	137	4	30	178	4	4	0	0	0	0	0	365. 24		
5	0	0	0	0	0	0	0	3	4	17	83	6	8	20	492	245	847%	1045%	765%	382%	0	0	0	0	0	3916. 24		
6	0	0	0	0	0	0	0	3	4%	367%	1345	1194	470	1256	801%	1043%	813%	614%	52M	19M	0	0	0	0	0	8503. 22		
7	0	0	0	0	0	0	0	3	4	397	663	930	863	792	1195	820	826%	1126	579%	44%	0	0	0	0	0	8043. 24		
8	0	0	0	0	0	0	0	23	558%	923	1005	517	156	331	1263	837	305%	103%	4	3	0	0	0	0	0	5828. 24		
9	0	0	0	0	0	0	0	389	1425	1713	1834	1866%	1897	1517	1579	1408	1176	747	926	431%	0	0	0	0	0	16908. 24		
10	0	0	0	0	0	0	0	184%	511	776	1424	1631	1683	466	623	1106	1535	655	915%	251%	0	0	0	0	0	11740. 24		
11	0	0	0	0	0	0	0	144%	906	1238	1414	1625	1169	1028	1333	1452	1003%	835%	428%	20	0	0	0	0	0	12594. 24		
12	0	0	0	0	0	0	0	105%	726%	1243	1360	811	355	488	269	359%	374M	679M	65M	10	0	0	0	0	0	99999.M21		
13	0	0	0	0	0	0	0	87%	777%	1227	1401	1394	1419	1111	1050	1097%	966%	818%	538%	90%	0	0	0	0	0	11975. 24		
14	0	0	0	0	0	0	0	5	317	1176	1492	979%	323%	384	1260	826	808%	105%	20	3	0	0	0	0	0	7699. 24		
15	0	0	0	0	0	0	0	3	14	89	357	155	77	448%	19	4	4	4	4	3	0	0	0	0	0	1179. 24		
16	0	0	0	0	0	0	0	2M	4M	81M	125M	922M	1179M	457M	590M	645	1037	429%	201%	101%	0	0	0	0	0	99999.M18		
17	0	0	0	0	0	0	0	145	947%	477	1141%	1723	1848	1842	1871	1867	1794	1580	1187	229%	0	0	0	0	0	16650. 24		
18	0	0	0	0	0	0	0	313%	1407	1760	1903	1945	1966	1915	1827	1496	1315	835	970	284%	0	0	0	0	0	17937. 24		
19	0	0	0	0	0	0	0	552%	1104	1443	1587	1666	1698	1699	1698	1668	1644	1433	1028M	25M	0	0	0	0	0	17405. 22		
20	0	0	0	0	0	0	0	65	583	992	1331	1542	1616	1641	1649	1575%	1468M	1241M	99999M	33M	0	0	0	0	0	99999.M20		
21	0	0	0	0	0	0	0	65	747	1041	1456	1707	1761	1763	1745	1713	1602	1397	913	456%	0	0	0	0	0	16364. 24		
22	0	0	0	0	0	0	0	158	1074	1499	1609	1680	1841	1939	1915	1840	1738	1545	1062	131%	0	0	0	0	0	18030. 24		
23	0	0	0	0	0	0	0	98%	195	858	1503	1846	1921	1930%	1939	1903	1834	1628	1165	582%	0	0	0	0	0	17402. 24		
24	0	0	0	0	0	0	0	82%	800%	1122	1566	1634M	99999M	1927M	1915	1646	1654	828	981%	491%	0	0	0	0	0	89999.M21		
25	0	0	0	0	0	0	0	477%	953	1425	1575	1671	1775M	1732M	1633	1494	1243	892	591%	77%	0	0	0	0	0	14935. 22		
26	0	0	0	0	0	0	0	167%	1145	1617	1802	1955	2003	2026	1989	1903	1775	1235	1132	85%	0	0	0	0	0	18835. 24		
27	0	0	0	0	0	0	0	109%	797	1494	1624	1742	1514	1799	1724	1634	1720	1020%	853M	30M	0	0	0	0	0	16314. 22		
28	0	0	0	0	0	0	0	88%	1057	1544	1742	1900	1935	1943	1955	1927	1893	1772	1425	226%	0	0	0	0	0	19406. 24		
29	0	0	0	0	0	0	0	202	1379	1724	1896	1993	2053	2070	2043	1992	1914	1750	1251	118%	0	0	0	0	0	20388. 24		
30	0	0	0	0	0	0	0	2	4%	4%	362	1512	1791	1744	1769	1806	1699	1590	1163	98%	0	0	0	0	0	13543. 24		
AV	0	0	0	0	0	0	0	125%	835%	954%	1202%	1278%	1160%	1139%	1263%	1208	1158%	875%	663%	161%	0	0	0	0	0	11821. 3		
HR	30	30	30	30	30	30	30	28	28	28	28	27	27	27	29	30	28	28	25	26	30	30	30	30	30	689		

FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 53.

ATLANTA (QA TECH) YEAR 1981 MONTH 9  
GLOBAL HORIZ. KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	17M	110M	495M	714M	359M	539	1287	398	179	165	175	121	24	1	0	0	0	0	99999. #18	
2	0	0	0	0	0	0	43	401	1091	1320	1816	2931	2215	2258	1990	1807	1070	495	128	1	0	0	0	0	17268. 24	
3	0	0	0	0	0	0	41	174	256	739	1429	1212	1681	2144	2773	997	696	567	120	0	0	0	0	0	12829. 24	
4	0	0	0	0	0	0	44	334	785	872	733	1129	1840	1519	393	676	854	213	57	0	0	0	0	0	9461. 24	
5	0	0	0	0	0	0	22	142	626	1071	1155	1289	1787	2322	1515	2007	1466	744	130	0	0	0	0	0	14275. 24	
6	0	0	0	0	0	0	41	305%1047	2000	2471	1955	3123	2716	2613	1933	1384	529	135	0	0	0	0	0	0	20252. 24	
7	0	0	0	0	0	0	29	309	928	1616\$2304	2193	2629	2778	2086	1726	1419	527	56	0	0	0	0	0	0	18601. 24	
8	0	0	0	0	0	0	58	512	1298	1873	2069	2009	2089	2918	1944	1465	732	250	36	0	0	0	0	0	17253. 24	
9	0	0	0	0	0	0	96	647	1406	2110	2726	3175	2859	2902	2530	1927	1014	564	119	0	0	0	0	0	22076. 24	
10	0	0	0	0	0	0	69	477	1174	1974	2595	3048	1606	2000	2456	2399	1184	722	122	0	0	0	0	0	19825. 24	
11	0	0	0	0	0	0	85	540	1209	1650	2519	2650	2690	2973	2818	1784	1134	433	63	0	0	0	0	0	20730. 24	
12	0	0	0	0	0	0	59	493	1216	1944	2150	1625	2232	1825	1985	1386	1147	463	32	0	0	0	0	0	16556. 24	
13	0	0	0	0	0	0	55	500	1176	1823	2311	2749	2703	2474	2456	1868	1148	442	68	0	0	0	0	0	19762. 24	
14	0	0	0	0	0	0	21	334	1161	1970	2397	2256	2120	2794	2107	1803	619	352	19	0	0	0	0	0	17953. 24	
15	0	0	0	0	0	0	35	275	770	1555	1465	949	2174%	621	358	173	262	142	10	0	0	0	0	0	8790. 24	
16	0	0	0	0	0	0	21M	233M	475M	898M	2150M	2645M	1848M	1958M	1745	1835	874	339	169%	0	0	0	0	0	99999. #16	
17	0	0	0	0	0	0	70	782%	1283	2062	2652	3008	3170	3083	2750	2167	1396	647	62	0	0	0	0	0	23133. 24	
18	0	0	0	0	0	0	82	597	1404	2142	2725	3108	3214	3094	2475	2101	1112	578	66	0	0	0	0	0	22677. 24	
19	0	0	0	0	0	0	267%	534	1263	1956	2522	2672	3010	2906	2525	1988	1272	502	48	0	0	0	0	0	21664. 24	
20	0	0	0	0	0	0	41	425	1051	1763	2384	2749	2892	2794	2399	1844	1142	451	36	0	0	0	0	0	19970. 24	
21	0	0	0	0	0	0	41	471	1032	1807	2487	2852	2967	2841	2502	1921	1202	457	34	0	0	0	0	0	20615. 24	
22	0	0	0	0	0	0	44	490	1223	1867	2414	2831	2979	2851	2492	1925	1232	479	34	0	0	0	0	0	20862. 24	
23	0	0	0	0	0	0	37	395	1066%	1892	2542	2914	2923%	2931	2572	2016	1273	501	39	0	0	0	0	0	21101. 24	
24	0	0	0	0	0	0	36	452	1126	1872	2441	2886	2991	2846	2358	1950	1050	579	289%	0	0	0	0	0	20875. 24	
25	0	0	0	0	0	0	223%	445	1151	1756	2337	2744M	2844M	2672	2302	1746	950	350	24	0	0	0	0	0	19086. #22	
26	0	0	0	0	0	0	35	470	1192	1889	2498	2961	2982	2857	2470	1880	1031	473	17	0	0	0	0	0	20655. 24	
27	0	0	0	0	0	0	33	388	1151	1816	2397	2595	2649	2758	2294	1862	947	412	16	0	0	0	0	0	19518. 24	
28	0	0	0	0	0	0	29	450	1173	1861	2428	2781	2898	2810	2462	1931	1227	465	19	0	0	0	0	0	20534. 24	
29	0	0	0	0	0	0	32	487	1233	1934	2499	2868	2991	2852	2478	1909	1187	423	15	0	0	0	0	0	20906. 24	
30	0	0	0	0	0	0	21	185%	526%	1435	2277	2766	2815	2643	2354	1781	1116	399	12	0	0	0	0	0	18329. 24	
AV	0	0	0	0	0	0	59%	429%	1072%	1742%	2241%	2382%	2561%	2503%	2146	1692	1044	454	66	0	0	0	0	0	18391. #	
HR	30	30	30	30	30	30	28	28	28	28	28	28	28	29	30	30	30	30	30	30	30	30	30	30	705	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 % - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

09

Table 54.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 9						
		GLOBAL (RG630) KJ/M2																										
DAY	Y	HOUR																								TOTL	HR	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	9M	58M	274M	366M	170M	268	696	209	87	94	106	80	25	0	0	0	0	0	99999.	#19		
2	0	0	0	0	0	0	30	228	631	756	1083	1657	1248	1252	1101	892	590	276	66	0	0	0	0	0	0	9790.	24	
3	0	0	0	0	0	0	23	97	134	401	791	650	828	1196	1564	542	371	311	61	0	0	0	0	0	0	0	7069.	24
4	0	0	0	0	0	0	33	190	428	480	399	624	1031	821	192	354	475	105	29	0	0	0	0	0	0	0	5160.	24
5	0	0	0	0	0	0	11	76	351	602	630	704	977	1296	813	1146	836	426	68	0	0	0	0	0	0	0	7937.	24
6	0	0	0	0	0	0	24	173	603	1156	1412	1080	1771	1509	1477	1099%	799	294%	76	0	0	0	0	0	0	0	11473.	24
7	0	0	0	0	0	0	13	165	525	934	1343	1256	1491	1585	1178	978%	815	286%	26	0	0	0	0	0	0	0	10593.	24
8	0	0	0	0	0	0	31	305	780	1098	1183	1134	1190	1673	1118	843	417	138	17	0	0	0	0	0	0	0	9926.	24
9	0	0	0	0	0	0	59	414	868	1264	1567	1870	1653	1735	1473	1116%	579%	330%	70	0	0	0	0	0	0	0	12999.	24
10	0	0	0	0	0	0	47	295	717	1184	1532	1782	880	1146	1472	1466	723	474	79	0	0	0	0	0	0	0	11795.	24
11	0	0	0	0	0	0	45	356	774	1149	1513	1590	1592	1754	1670	1038%	659%	239%	29	0	0	0	0	0	0	0	12408.	24
12	0	0	0	0	0	0	41	320	767	1179	1278	943	1291	1053	1158	804	681	268	10	0	0	0	0	0	0	0	9793.	24
13	0	0	0	0	0	0	39	321	747	1132	1409	1623	1601	1480	1509	1133	699	277	29	0	0	0	0	0	0	0	11997.	24
14	0	0	0	0	0	0	8	193X	724	1197	1403	1289	1205	1599	1194	1063	353	199	9	0	0	0	0	0	0	0	10437.	24
15	0	0	0	0	0	0	29	166	441	895	809	511	1156	327	183	89	142	90	13	0	0	0	0	0	0	0	4851.	24
16	0	0	0	0	0	0	13M	142M	259M	520M	1243M	1537M	1050M	1100M	979	1070	487%	185	92%	0	0	0	0	0	0	0	99999.	#16
17	0	0	0	0	0	0	53	528	786	1244	1586	1773	1860	1807	1818	1282	841	416	38	0	0	0	0	0	0	0	13832.	24
18	0	0	0	0	0	0	48	406	884	1308	1638	1837	1890	1816	1437	1246	667	359	44	0	0	0	0	0	0	0	13581.	24
19	0	0	0	0	0	0	184%	368	803	1205	1540	1746	1814	1735	1502	1175	776	316	28	0	0	0	0	0	0	0	13192.	24
20	0	0	0	0	0	0	32	295	694	1128	1494	1704	1765	1688	1452	1117	711	282	20	0	0	0	0	0	0	0	12382.	24
21	0	0	0	0	0	0	31	313	659	1128	1537	1730	1774	1394	1485	1148	740	286	19	0	0	0	0	0	0	0	12545.	24
22	0	0	0	0	0	0	35	331	786	1171	1484	1688	1757	1675	1456	1128	733	289	19	0	0	0	0	0	0	0	12553.	24
23	0	0	0	0	0	0	29	274	699	1168	1533	1736	1732	1727	1512	1187	766	308	23	0	0	0	0	0	0	0	12692.	24
24	0	0	0	0	0	0	28	302	709	1143	1466	1712	1782	1698	1412	1170	636	360	180%	0	0	0	0	0	0	0	12597.	24
25	0	0	0	0	0	0	149%	297	729	1089	1410	1626	1666	1576	1360	1036	572	207	14	0	0	0	0	0	0	0	11490.	\$22
26	0	0	0	0	0	0	26	315	756	1148	1489	1694	1759	1680	1461	1116	617	292	8	0	0	0	0	0	0	0	12361.	24
27	0	0	0	0	0	0	25	256	718	1083	1423	1536	1685	1626	1359	1108	564	260	7	0	0	0	0	0	0	0	11656.	24
28	0	0	0	0	0	0	22	303	743	1137	1467	1656	1708	1639	1431	1124	725	281	11	0	0	0	0	0	0	0	12244.	24
29	0	0	0	0	0	0	27	329	765	1160	1482	1689	1748	1672	1481	1131	722	266	9	0	0	0	0	0	0	0	12461.	24
30	0	0	0	0	0	0	22	124	325	870	1373	1666	1686	1572	1392	1056	674	246	6	0	0	0	0	0	0	0	11014.	24
AV	0	0	0	0	0	0	41%	276%	662%	1051%	1330%	1398%	1488%	1456%	1250	992	616	272	37	0	0	0	0	0	0	0	10870.	%
HR	30	30	30	30	30	30	28	28	28	28	28	28	28	29	30	30	30	30	30	30	30	30	30	30	30	30	705	

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**FLAGS:**  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 % - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 55.

		ATLANTA (GA TECH)												YEAR 1981		MONTH 9										
		DIFFUSE HORIZ. KJ/M2																								
D A Y	HOUR																								T O T L	H R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	19*	113*	510*	716*	390*	556	1265	408	196	194	210	164	59	2	0	0	0	0	99999.*	19
2	0	0	0	0	0	0	84	258	755*	1179*	1165	1223	1438	1436	942	703	697	394	144	1	0	0	0	0	10399.	24
3	0	0	0	0	0	0	41	174	255	723	1348	1198	1831	1503	998	570	671	543	131	0	0	0	0	0	9787.	24
4	0	0	0	0	0	0	63	346	734	834	722	1101	1625	1294	408	569	718	224	75	0	0	0	0	0	8731.	24
5	0	0	0	0	0	0	28	145	608	969	1131	1261	1706	1594	1191	1120*	608*	157*	109*	0	0	0	0	0	10622.	24
6	0	0	0	0	0	0	50*	86*	578*	749*	1045*	1295	1367	1558*	1231*	932*	753*	386*	138	0	0	0	0	0	10169.	24
7	0	0	0	0	0	0	31	306	707*	958*	1210	1355	1531	1204	1174	995	688	326	84	0	0	0	0	0	10571.	24
8	0	0	0	0	0	0	62	337	755	963	1437	1735	1604	1247	1209	1170	668	265	48	0	0	0	0	0	11499.*	24
9	0	0	0	0	0	0	42	169	252	298*	337*	514	698	731	775	697	469	276	86	0	0	0	0	0	5890.*	22
10	0	0	0	0	0	0	56	338	677	673	708	826	966	1190	1219	1001	781	458	126	0	0	0	0	0	9017.	24
11	0	0	0	0	0	0	53	269	473	612	882	1225	1389	1332	1237	955	657	343	85	0	0	0	0	0	9312.	24
12	0	0	0	0	0	0	53	277	492	775	1250	1200	1576	1486	1572	1055	711	364	54	0	0	0	0	0	10868.	24
13	0	0	0	0	0	0	53	294	469	643	835	992	1308	1286	1391	1135	730	171*	87*	0	0	0	0	0	9374.	24
14	0	0	0	0	0	0	27	233*	280*	394*	1091*	1656*	1604	1230	1202	1179	587	387	43	0	0	0	0	0	9912.	24
15	0	0	0	0	0	0	48	284	703	1212	1263	871	1272*	582*	392	141*	152*	177*	33	0	0	0	0	0	7128.	24
16	0	0	0	0	0	0	39*	281*	449*	780*	992*	992*	1171*	1160*	1012	956	615*	301*	151*	0	0	0	0	0	99999.*	18
17	0	0	0	0	0	0	57*	503*	947	944*	619	517*	514*	475*	455*	414	338	271	46	0	0	0	0	0	6100.	24
18	0	0	0	0	0	0	44*	199*	267	256	316	356	448	558	624	783	563	278	41	0	0	0	0	0	4732.	24
19	0	0	0	0	0	0	128*	258	426*	559*	618	892	731	731	859	521	419	250	51	0	0	0	0	0	6040.	24
20	0	0	0	0	0	0	38	314	582*	756*	790	827	859	834	793	676	505*	271	40	0	0	0	0	0	7287.	24
21	0	0	0	0	0	0	36	285	426	527*	577*	583	614	620	564*	493*	395	238	41	0	0	0	0	0	5398.	24
22	0	0	0	0	0	0	28	182	284	388	451	491	412*	270*	319*	286*	220*	127	38	0	0	0	0	0	3498.	24
23	0	0	0	0	0	0	34	354	633*	635	565	547	531*	514	466	397	319	204	36	0	0	0	0	0	5235.	24
24	0	0	0	0	0	0	29	254	522	580	612	561*	561	535	607	584	593	347	173*	0	0	0	0	0	5959.*	24
25	0	0	0	0	0	0	101*	202	344	437	522	563*	674*	718	717	715	299*	136*	30	0	0	0	0	0	5681.*	22
26	0	0	0	0	0	0	24	81*	116*	132*	157*	248*	241*	230*	211*	223*	201*	214*	24	0	0	0	0	0	2102.	24
27	0	0	0	0	0	0	24	85*	175*	366	453	658*	557	646	499*	488	415	297	23	0	0	0	0	0	4687.	24
28	0	0	0	0	0	0	25	198	329	403	387	430	430	415	376	297	208	121	16	0	0	0	0	0	3636.	24
29	0	0	0	0	0	0	20	141	238	289	319	328	336	325*	303	272	98*	38*	14	0	0	0	0	0	2721.	24
30	0	0	0	0	0	0	14	188*	502*	1068	895	625	859	561	488	419	285	153	13	0	0	0	0	0	5649.	24
AV	0	0	0	0	0	0	45*	241*	483*	688*	776*	853*	995*	880*	774	685	486	263	67	0	0	0	0	0	7197.*	
HR	30	30	30	30	30	30	28	28	28	27	27	28	28	29	30	30	30	30	30	30	30	30	30	30	703	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 56.

ATLANTA (GA TECH) YEAR 1981 MONTH 9  
LAT. TILTED KJ/M2

D A Y	HOUR																								T O T L	H R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	45*	90*	436*	589*	296*	451	1165	356	165	140	150	104	58	7	0	0	0	0	99999.*19	
2	0	0	0	0	0	0	54	378	1020	1326	1838	2997	2349	2358	2101	1661	993	470	125	6	0	0	0	0	17675. 24	
3	0	0	0	0	0	0	50	145	210	649	1400	1113	1595	2222	2974	1029	660	503	130	0	0	0	0	0	12680. 24	
4	0	0	0	0	0	0	54	298	693	773	628	990	1720	1504	271	537%	801	164	67	0	0	0	0	0	8502. 24	
5	0	0	0	0	0	0	43	106	538	995	1006	1174	1655	2365	1513	2065	1491	702	119	0	0	0	0	0	13772. 24	
6	0	0	0	0	0	0	50	260	1032	2156	2678	2047	3326	2886	2783	2042	1371	489	126	0	0	0	0	0	21248. 24	
7	0	0	0	0	0	0	43	260	931	1692	2453	2260	2822	3016	2173	1810	1452	520	58	0	0	0	0	0	19489. 24	
8	0	0	0	0	0	0	59	475	1288	1970	2184	1996	2102	3272	2066	1478	668	204	56	0	0	0	0	0	17816. 24	
9	0	0	0	0	0	0	74	820	1481	2164	2867	3571	3244%	3278	2840	2122	1079	556	113	0	0	0	0	0	24010. 24	
10	0	0	0	0	0	0	63	439	1219	2164	2906	3410	1727	2114	2609	2560	1198	719	123	0	0	0	0	0	21250. 24	
11	0	0	0	0	0	0	61	524	1287	2056	2863	2945	2957	3240	3033	1890	1186	427	74	0	0	0	0	0	22545. 24	
12	0	0	0	0	0	0	57	484	1308	2112	2309	1668	2336	1850	2015	1473	1210	463	50	0	0	0	0	0	17337. 24	
13	0	0	0	0	0	0	55	494	1270	2044	2639	3122	2978	2771	2662	2005	1225	456	71	0	0	0	0	0	21792. 24	
14	0	0	0	0	0	0	38	329	1266	2230	2635%	2371	2229	3163	2307	1894	596	312	45	0	0	0	0	0	19417. 24	
15	0	0	0	0	0	0	41	255	727	1624	1411	851	2219	547	250%	153	223	126	44	0	0	0	0	0	8472. 24	
16	0	0	0	0	0	0	39*	211*	485*	884*	2394*	2988*	1981*	2137*	1974%	1990	923	325	162\$	0	0	0	0	0	99999.*16	
17	0	0	0	0	0	0	63	753	1291	2237	3063	3531	3725	3625	3198	2489	1562	686	70	0	0	0	0	0	26292. 24	
18	0	0	0	0	0	0	62	641	1590	2490	3196	3656	3775	3816	2865	2310	1174	608	74	0	0	0	0	0	26057. 24	
19	0	0	0	0	0	0	287\$	574	1432	2279	2958	3417	3567	3414	2943	2286	1404	535	67	0	0	0	0	0	25184. 24	
20	0	0	0	0	0	0	44	423	1138	2006	2772	3247	3425	3266	2783	2102	1249	476	48	0	0	0	0	0	22980. 24	
21	0	0	0	0	0	0	47	513	1175	2130	2981	3436	3545	3389	2990	2239	1355	508	48	0	0	0	0	0	24355. 24	
22	0	0	0	0	0	0	53	569	1441	2222	2891	3395	3587	3431	2980	2281	1429	547	49	0	0	0	0	0	24873. 24	
23	0	0	0	0	0	0	45	398	1215	2265	3090	3539	3543	3548	3116	2413	1506	582	53	0	0	0	0	0	25303. 24	
24	0	0	0	0	0	0	43	501	1299	2246	2963	3516	3647	3466	2831	2319	1133	646	323\$	0	0	0	0	0	24933. 24	
25	0	0	0	0	0	0	256\$	511	1376	2134	2843	3335*	3448*	3240	2765	2018	1091	399	40	0	0	0	0	0	22882. 922	
26	0	0	0	0	0	0	44	561	1450	2316	3064	3514	3688	3506	3053	2284	1227	573	34	0	0	0	0	0	25294. 24	
27	0	0	0	0	0	0	41	461	1405	2220	2941	3161%	3514	3355	2835	2280	1103	465	31	0	0	0	0	0	23812. 24	
28	0	0	0	0	0	0	40	550	1458	2327	3066	3480	3619	3501	3123	2395	1537	605	30	0	0	0	0	0	25732. 24	
29	0	0	0	0	0	0	37	623	1541	2426	3134	3589	3736	3558	3099	2371	1490	548	27	0	0	0	0	0	26178. 24	
30	0	0	0	0	0	0	23	144	452	1577	2834	3420	3496	3324	2967	2219	1403	522	26	0	0	0	0	0	22407. 24	
AV	0	0	0	0	0	0	65\$	439\$	1162\$	1958\$	2558\$	2710\$	2902\$	2868\$	2443	1895	1130	475	78	0	0	0	0	0	20682. \$	
HR	30	30	30	30	30	30	28	28	28	28	28	28	28	29	30	30	30	30	30	30	30	30	30	30	705	

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**FLAGS:**  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 57.

		ATLANTA (GA TECH)												YEAR 1981		MONTH 9											
		INFRARED 10 KJ/M2																									
D A Y	1	2	3	4	5	6	7	8	9	10	11	12	HOUR												24	TOTL	HR
													13	14	15	16	17	18	19	20	21	22	23				
1	146M	144M	146M	144M	145M	153M	154M	154M	155M	156M	157M	156	157	158	156	156	154	154	152	146	146	148	146	145	99999	M13	
2	143	143	143	146	142	141	144	149	155	155	154	145	148	148	147	154	155	157	159	152	146	147	148	147	3571	24	
3	147	146	144	147	141	144	151	154	154	155	157	158	159	154	151	158	158	158	154	156	155	153	155	155	3664	24	
4	149	151	149	144	146	147	151	152	153	159	160	161	157	159	159	153	151	154	152	151	147	151	155	152	3663	24	
5	154	154	155	154	154	153	154	155	157	159	160	161	159	152	156	148%	143%	151	147	143	143	142	142	142	3636	24	
6	152	154	152	152	152	151	150	153	153	151	150	151	139%	145	144	152	154	153	149	146	145	145	145	153	3581	24	
7	150	141	141	142	141	139	152	154	154	154%	154	154	141%	147	158	155	155	155	161	157	152	147	149	145	3594	24	
8	148	149	151	144	141	139	141	144	150	151	149	153	153	139%	155	159	158	158	156	155	143	130	125	122	3514	24	
9	121	119	118	116	116	116	120	135	137	117	131	131	124%	124%	130%	139	141	140	135	129	128	124	124	123	3038	24	
10	124	123	123	122	124	124	126	136	142	145	140	128%	135%	150	150	151	156	152	148	138	134	134	132	131	3271	24	
11	131	130	129%	129	126	127	130	142	148	150%	145	145	136%	137%	147	150	149	149	143	139%	138	139%	137	136%	3332	24	
12	140	138%	134	135	136	137	135	143	150	152	151	153	148	156	156	153	151	150	144	139	139%	137%	135%	135%	3448	24	
13	134%	133%	132	133%	134	135	134	143	150	154%	150	136	143%	151	156	156	154	153	146	143	142	146	144	142	3444	24	
14	142	141	139	138	138	140	140	141	148	152	152	157	142	146	150	156	155	155	154	148	145	145	147	142	3513	24	
15	144	144	146	145	144	145	150	150	151	155	157	156	142%	156	156	156	153	154	152	149	149	150%	151	152M	3589	23	
16	153M	150M	151	148M	151M	152M	150M	151M	149M	152M	136M	130M	149M	148M	146	144	144	143	138M	133M	127M	124	123	121	99999	M 8	
17	120	119	118	118	115	114	119	137	136	130	124	110%	111%	110%	108%	120%	123	128	118	113	112	109%	108%	108%	2828	24	
18	105%	104%	103%	103%	102%	102%	105	118	121	119	114	101%	110%	112%	112%	121	126	120	111	108	107	107	105	105	2842	24	
19	103	103	102	102	103	104	111M	118	122	123	120	107%	119	109%	119	122	125	128	114%	117	118%	114	113	112	2730	24	
20	112	111	110	110	109	110	111	119	123	126	125	124	114%	124	127	128	131	131	125	122%	121%	120%	118%	118%	2869	24	
21	118%	117%	116%	116%	115%	114	117	125	131	133	131	118%	128	120%	132	136	138	138	131	127	126%	125%	125%	123	2997	24	
22	122	121%	120%	118%	115	114%	117	129	133	134	133	120%	130	123%	135	139	142	144	138	135	135	134%	133%	132%	3098	24	
23	131	130%	128	126	125	123	125	135	139	137	128	128	128%	128%	128	132	135	136	130	126	125	124	124	124	3094	24	
24	124	123	122	119	118	118	119	129	134	135	131	115%	128	120%	129	135	141	141	132M	128M	127%	125%	125	124	3042	22	
25	124M	123	123M	121M	120	120M	122M	132	138	141	137	132%	133%	126%	139	142	143	142	137	135	132	131	128	127	3165	21	
26	125	124	121	119	118	116	119	130	136	136	130	117%	127%	120%	133	135	138	138	129	124%	125	125	125	125	3037	24	
27	126	126	126	127	132	124	126	136	143	143	139	139	127%	138	140	143	148	147	139	137%	135%	134%	133%	132%	3238	24	
28	130%	129%	127%	128%	127	127	127	135	139	139	135	123%	136	126%	136	139	139	138	128	123%	120%	118%	116%	114%	3098	24	
29	112%	112%	112%	112%	113	113	116	131	136	136	131	128	119%	129	133	138	139	140	131	127	126	127	127	127	3014	24	
30	126	125	123	121	122	123	134	146	150	146	136	136%	138	129%	142	145	147	146	137%	134%	133%	132%	131	130	3233	24	
AV	1318	1308	1308	1288	1278	1288	1318	1388	1428	1428	1408	1368	1368	1368	141	144	145	145	1408	1368	1348	133	132	1318	3256	8	
HR	27	28	28	27	28	27	27	28	28	28	28	28	28	29	30	30	30	30	28	28	29	30	30	29	683		

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 FLAGS:  
 M - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 N - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 58.

ATLANTA (QA TECH) YEAR 1981 MONTH 9

ULTRAVIOLET KJ/M2

DAY	HOUR																								TOTL	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	0M	8M	34M	49M	31M	43	89	31	16	18	17	12	5	0	0	0	0	0	99999	M19		
2	0	0	0	0	0	0	5	28	59	80	97	138	121	128	111	87	59	28	8	0	0	0	0	0	0	949	24	
3	0	0	0	0	0	0	2	10	18	48	86	77	99	120	138	58	44	32	9	0	0	0	0	0	0	0	743	24
4	0	0	0	0	0	0	2	20	49	54	45	69	104	91	28	40	47	15	4	0	0	0	0	0	0	0	588	24
5	0	0	0	0	0	0	1	10	38	64	73	80	107	130	94	97	71	36	9	0	0	0	0	0	0	0	809	24
6	0	0	0	0	0	0	3	19	57	105	133	117	165	149	133	97	65	30	8	0	0	0	0	0	0	0	1081	24
7	0	0	0	0	0	0	2	20	59	87S	114	115	141	142	108	88	66	30%	4	0	0	0	0	0	0	0	978	24
8	0	0	0	0	0	0	3	28	83	95	112	112	113	149	97	73	41	15	3	0	0	0	0	0	0	0	904	24
9	0	0	0	0	0	0	4	31	68	106	142	166	155%	145	128	97%	56%	30%	7	0	0	0	0	0	0	0	1134	24
10	0	0	0	0	0	0	3	26	60	99	132	157	107%	111	109	93	47	24	5	0	0	0	0	0	0	0	873	24
11	0	0	0	0	0	0	3	26	56	84	122	125	131	139	126	88	57	27	5	0	0	0	0	0	0	0	986	24
12	0	0	0	0	0	0	3	25	58	93	108	89	118	97	98	72	53	25	5	0	0	0	0	0	0	0	844	24
13	0	0	0	0	0	0	2	23	54	83	102	132	129	114	100	78	50	22	4	0	0	0	0	0	0	0	895	24
14	0	0	0	0	0	0	2	23	56	93	120	120	112	142	108	82	37	21	2	0	0	0	0	0	0	0	919	24
15	0	0	0	0	0	0	1	16	47	86	89	64	128	45	29	17	22	12	1	0	0	0	0	0	0	0	556	24
16	0	0	0	0	0	0	2M	16M	39M	60M	123M	145M	112M	115M	100	89	51	22	11S	0	0	0	0	0	0	0	99999	M16
17	0	0	0	0	0	0	2	26	59	104	138	161	170	162	140	105	65	27	4	0	0	0	0	0	0	0	1160	24
18	0	0	0	0	0	0	2	27	66	109	145	170	176	166	134	104	55	27	3	0	0	0	0	0	0	0	1184	24
19	0	0	0	0	0	0	12S	24	59	98	130	151	156	147	122	93	56	22	3	0	0	0	0	0	0	0	1074	24
20	0	0	0	0	0	0	1	17	43	78	111	132	140	131	109	80	48	20	2	0	0	0	0	0	0	0	912	24
21	0	0	0	0	0	0	1	20	49	86	117	138	145	138	119	87	52	22	2	0	0	0	0	0	0	0	974	24
22	0	0	0	0	0	0	1	22	54	83	112	139	146	141	121	89	55	23	2	0	0	0	0	0	0	0	989	24
23	0	0	0	0	0	0	1	19	53	92	127	147	147S	146	125	94	56	22	2	0	0	0	0	0	0	0	1032	24
24	0	0	0	0	0	0	1	21	54	92	123	147	150	137	109	87	47	23	12S	0	0	0	0	0	0	0	1002	24
25	0	0	0	0	0	0	11S	21	54	80	110	135M	141M	129	107	79	44	19	1	0	0	0	0	0	0	0	910	S22
26	0	0	0	0	0	0	1	22	55	91	126	146	152	142	119	66	48	21	1	0	0	0	0	0	0	0	1011	24
27	0	0	0	0	0	0	1	21	55	91	122	132	141	133	109	83	44	18	1	0	0	0	0	0	0	0	950	24
28	0	0	0	0	0	0	1	22	56	91	121	140	145	141	120	90	55	21	1	0	0	0	0	0	0	0	1004	24
29	0	0	0	0	0	0	1	23	58	97	129	150	156	143	120	86	52	20	1	0	0	0	0	0	0	0	1038	24
30	0	0	0	0	0	0	0	11	31	78	117	136	135	124	110	80	49	18	1	0	0	0	0	0	0	0	888	24
AV	0	0	0	0	0	0	3S	22S	53S	87S	114S	125S	135S	126S	106	80	50	23	4	0	0	0	0	0	0	0	931	S
HR	30	30	30	30	30	30	28	28	28	28	28	28	28	29	30	30	30	30	30	30	30	30	30	30	30	30	705	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 59.

ATLANTA (GA TECH) YEAR 1961 MONTH 9  
AVAILABLE SUNSHINE %

D A Y	HOUR																								AVG HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0M	0M	0M	0M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99999.#19
2	0	0	0	0	0	0	0	35	45	14	42	75	42	41	56	63	40	21	0	0	0	0	0	0	0	37.24
3	0	0	0	0	0	0	0	0	0	0	0	0	0	31	88	23	2	0X	2	0	0	0	0	0	0	11.24
4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	0	1X	3X	0	0	0	0	0	0	0	1.24
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38X	18X	85X	97X	100X	18X	0	0	0	0	0	27.24
6	0	0	0	0	0	0	0	0X	34X	100	83	33X	84X	62X	87X	78X	87X	22X	0X	0	0	0	0	0	0	53.24
7	0	0	0	0	0	0	0	0	0	36	55X	74	52	61	80	63	69	95	62	0	0	0	0	0	0	51.24
8	0	0	0	0	0	0	0	48	92	87	40	12	26	89	48	24	9	0	0	0	0	0	0	0	0	38.24
9	0	0	0	0	0	0	51	100	100	100	100	99	78X	86	82	70	52	81	41	0	0	0	0	0	0	81.24
10	0	0	0	0	0	0	0	49	71	99	100	98	28	41X	73	100	53	100	8	0	0	0	0	0	0	85.24
11	0	0	0	0	0	0	0	89	100	100	100	78	69	86	98	76	73	19X	0	0	0	0	0	0	0	71.24
12	0	0	0	0	0	0	0	68	100	100	85	35	48	25	34	34	62X	13X	0	0	0	0	0	0	0	49.24
13	0	0	0	0	0	0	0	74	100	100	100	93	75	81	96	92	87	24	0	0	0	0	0	0	0	74.24
14	0	0	0	0	0	0	0	33	100	100	73X	24X	30	89	61	75	8	0	0	0	0	0	0	0	0	48.24
15	0	0	0	0	0	0	0	0	4	33	15	8	37X	2	0	0	0	0	0	0	0	0	0	0	0	8.24
16	0	0	0	0	0	0	0M	0M	8M	10M	60M	74M	31M	39M	49	86	41	16X	8X	0	0	0	0	0	0	99999.#16
17	0	0	0	0	0	0	8X	98X	48	88X	100	100	100	100	100	100	96	100	22	0	0	0	0	0	0	85.24
18	0	0	0	0	0	0	52	100	100	100	100	100	100	98	86	78	55	77	40	0	0	0	0	0	0	86.24
19	0	0	0	0	0	0	50X	100	100	100	100	100	100	100	100	100	100	84X	0X	0	0	0	0	0	0	94.24
20	0	0	0	0	0	0	0	43	100	100	100	100	100	100	100	100X	100X	77X	0X	0	0	0	0	0	0	84.24
21	0	0	0	0	0	0	0	68	89	100	100	100	100	100	100	100	100	91	0	0	0	0	0	0	0	87.24
22	0	0	0	0	0	0	14	100	100	100	100	100	100	100	100	100	100	99	0	0	0	0	0	0	0	92.24
23	0	0	0	0	0	0	0	7	74	95	100	100	100	100	100	100	100	100	17	0	0	0	0	0	0	80.24
24	0	0	0	0	0	0	0	70	100	100	100X	100X	100X	100	100	100	84	89	44X	0	0	0	0	0	0	91.24
25	0	0	0	0	0	0	45X	90	100	100	100	100M	100M	100	100	100	82X	44	0	0	0	0	0	0	0	86.22
26	0	0	0	0	0	0	10	97	100	100	100	100	100	100	100	100	94	96	0X	0	0	0	0	0	0	92.24
27	0	0	0	0	0	0	0	81	100	100	100	100	100	100	99	100	74	32	0	0	0	0	0	0	0	82.24
28	0	0	0	0	0	0	0	92	100	100	100	100	100	100	100	100	100	100	53	0	0	0	0	0	0	94.24
29	0	0	0	0	0	0	32	100	100	100	100	100	100	99	100	100	100	100	13	0	0	0	0	0	0	95.24
30	0	0	0	0	0	0	0	0X	0X	28	93	100	100	100	100	100	100	100	4	0	0	0	0	0	0	70.24
AV	0	0	0	0	0	0	6X	54X	71X	80X	79X	68X	66X	74X	75	74	67	55	7	0	0	0	0	0	0	63.8
HR	30	30	30	30	30	30	28	28	28	28	28	28	28	29	30	30	30	30	30	30	30	30	30	30	30	705

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**FLAGS:**  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 60.

ATLANTA (QA TECH) YEAR 1981 MONTH 10

DIRECT NORMAL KJ/M2

DAY	HOUR																								TOTL	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	95	1392	2240	2558	2612	2643	2095	1547	1327	2209	1499	152	1	0	0	0	0	0	20370.	24		
2	0	0	0	0	0	0	98	1623	2866	3262	3386	3544	3561	3510	3406	3196	2877	2022	205%	0	0	0	0	0	0	33556.	24	
3	0	0	0	0	0	0	282%	2148	2965	3284	3459	3543	3491	3486	3412	3155	2671	1521	70	0	0	0	0	0	0	33485.	24	
4	0	0	0	0	0	0	7	834	2089	2412	3084	3235	3375	3333	2594	2282	1942	1392	40	0	0	0	0	0	0	25619.	24	
5	0	0	0	0	0	0	151	1711	2553	2858	3043	3100	3066	3029	2358	2549	2156	1155	39	0	0	0	0	0	0	27768.	24	
6	0	0	0	0	0	0	87	1253	2208	2480	2722	2767	2797	2456	937	215	453	7	1	0	0	0	0	0	0	16379.	24	
7	0	0	0	0	0	0	1	3	3	9	670	497	1253	2009	12	113	396	3	1	0	0	0	0	0	0	4969.	24	
8	0	0	0	0	0	0	1	3	3	103	1898	2970	3113	3302	3177	2640	1967	785	27	0	0	0	0	0	0	20188.	24	
9	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0	34.	24	
10	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0	34.	24	
11	0	0	0	0	0	0	1	3	5	6	3	45	1504%	2545	933%	597%	993%	433%	0	0	0	0	0	0	0	7069.	24	
12	0	0	0	0	0	0	0	156	194	161%	525%	1801%	1624%	1587%	2175%	1646%	3	3	0	0	0	0	0	0	0	9874.	24	
13	0	0	0	0	0	0	2	554	1204	2012	2573	2744	2804	2865	2562	2583	2533	1330	5	0	0	0	0	0	0	23774.	24	
14	0	0	0	0	0	0	48	1458	2565	2958	3193	3298	2660%	3123	1948%	895	468	3	0	0	0	0	0	0	0	22617.	24	
15	0	0	0	0	0	0	5	479	2028	2923	2157	184%	456%	140%	38%	1666	1331	144	0	0	0	0	0	0	0	11549.	24	
16	0	0	0	0	0	0	34	1338	2307	2817	2913	2510	2818	2921	2585	2490	1051	534	0	0	0	0	0	0	0	24318.	24	
17	0	0	0	0	0	0	7	1033	2109	2472	2779	2899	2904	2365	1992	2058	1284	437	0	0	0	0	0	0	0	22340.	24	
18	0	0	0	0	0	0	1	3	3	3	3	3	61	250	477	886	856	66	0	0	0	0	0	0	0	2612.	24	
19	0	0	0	0	0	0	15	1897	2894	3289	3432	33575	3617	3546	3463	3265	2793	1414	0	0	0	0	0	0	0	33201.	24	
20	0	0	0	0	0	0	23%	1978	2938	3275	3459	3540	3569	3503	3376	3094	2597	1229	0	0	0	0	0	0	0	32582.	24	
21	0	0	0	0	0	0	13	1354	2428	2687	3053	3220	3224	3153	2994	2064	263	68	0	0	0	0	0	0	0	24522.	24	
22	0	0	0	0	0	0	1	477	354	78	417	788	1454	287	679	227	117	12	0	0	0	0	0	0	0	4891.	24	
23	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	4	14	0	0	0	0	0	0	0	44.	24	
24	0	0	0	0	0	0	0	2	37	97	180	3	3	3	24	3	3	2	0	0	0	0	0	0	0	358.	24	
25	0	0	0	0	0	0	0	2	2	2	2	2	2	2	3	3	3	2	0	0	0	0	0	0	0	27.	24	
26	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	31.	24	
27	0	0	0	0	0	0	0	3	534	3	233	159%	445%	1448	250	1138	1773	409	0	0	0	0	0	0	0	6395.	24	
28	0	0	0	0	0	0	0	531	2304	2783	3129	3197	3220	3099	2981	2610	1812	168	0	0	0	0	0	0	0	25836.	24	
29	0	0	0	0	0	0	0	282	1100	293	2880	2694	2062	2967	2934	2376	1995	594	0	0	0	0	0	0	0	20179.	24	
30	0	0	0	0	0	0	0	12	26	913	426	248	1723	2108	2567	2360	1759	429	0	0	0	0	0	0	0	12568.	24	
31	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	0	0	0	32.	24	
AV	0	0	0	0	0	0	28	663	1225	1411	1685	1717	1836	1890	1588	1501	1149	463	13	0	0	0	0	0	0	15168.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 61.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 10					
		DIRECT (RG030) KJ/M2																									
D A Y	H R	HOUR																								T O T L	H R
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	91%	1095	1550	1698	1731	1764	1408	1048	898	1546	1147	141%	2	0	0	0	0	0	14116.	24	
2	0	0	0	0	0	0	89	1182	1872	2050	2101	2186	2186	2165	2124	2036	1910	1613	185%	0	0	0	0	0	0	21598.	24
3	0	0	0	0	0	0	247%	1553	1912	2029	2117	2209	2167	2191	2174	2076	1872	1203	70%	0	0	0	0	0	0	21840.	24
4	0	0	0	0	0	0	11	615	1378	1526	1932	2011	2090	2080	1639	1465	1315	1089	42	0	0	0	0	0	0	17191.	24
5	0	0	0	0	0	0	138	1264	1671	1785	1854	1888	1888	1868	1495	1680	1518	954%	43%	0	0	0	0	0	0	18064.	24
6	0	0	0	0	0	0	85%	983	1527	1635	1754	1770	1773	1569	625	158	385%	8	1	0	0	0	0	0	0	12252.	24
7	0	0	0	0	0	0	2	4	4	5	386%	295	765	1235	11	76	271	4	1	0	0	0	0	0	0	3058.	24
8	0	0	0	0	0	0	1	4	4	61	1175	1832	1918	2049	2004	1865	1373	850%	30	0	0	0	0	0	0	12953.	24
9	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	4	4	4	1	0	0	0	0	0	0	43.	24
10	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	4	4	4	1	0	0	0	0	0	0	43.	24
11	0	0	0	0	0	0	1	4	6	7	4	30	987%	1771	723%	743%	763%	382%	1	0	0	0	0	0	0	5421.	24
12	0	0	0	0	0	0	18%	121	135	92	320%	1179%	1128%	1113%	1577	1174%	3	4	1	0	0	0	0	0	0	8865.	24
13	0	0	0	0	0	0	4	519%	942	1451	1782	1864	1899%	1935	1730	1741	1811	1114%	7	0	0	0	0	0	0	16801.	24
14	0	0	0	0	0	0	48%	1152	1765	1917	2015	2055	1612%	1935	1205%	558	315	4	0	0	0	0	0	0	0	14560.	24
15	0	0	0	0	0	0	7	338	1294%	1812	1318	105	271	83	26	1106	951	124	4	0	0	0	0	0	0	7435.	24
16	0	0	0	0	0	0	35	1062	1592	1815	1834	1583	1775	1844	1667	1682	781	475%	0	0	0	0	0	0	0	16147.	24
17	0	0	0	0	0	0	9	834	1494	1657	1812	1861	1876	1579	1365	1483	1038%	429%	0	0	0	0	0	0	0	15438.	24
18	0	0	0	0	0	0	1	4	4	4	4	4	39	162	306	590	804	56	0	0	0	0	0	0	0	1777.	24
19	0	0	0	0	0	0	15	1494	1991	2144	2203%	2262	2287	2257	2228	2156	1971	1173%	0	0	0	0	0	0	0	22182.	24
20	0	0	0	0	0	0	23%	1556	2027	2144	2199	2221	2265	2255	2208	2088	1881	1048%	0	0	0	0	0	0	0	21914.	24
21	8	0	0	0	0	0	14	1055%	1709	1761	1947	2048	2058	2020	1962	1417	213	71	0	0	0	0	0	0	0	16276.	24
22	0	0	0	0	0	0	1	381	249	54	277	500	925	182	449	160	90	16	0	0	0	0	0	0	0	3285.	24
23	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	4	5	17	0	0	0	0	0	0	0	57.	24
24	0	0	0	0	0	0	1	3	28	64	115	3	4	3	19	3	4	3	0	0	0	0	0	0	0	250.	24
25	0	0	0	0	0	0	1	3	3	3	3%	3	3	3	3	3	3	3	0	0	0	0	0	0	0	36.	24
26	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	4	4	3	0	0	0	0	0	0	0	41.	24
27	0	0	0	0	0	0	1	4	365	4	158	114	276%	903	182	823	1382	393%	0	0	0	0	0	0	0	4585.	24
28	0	0	0	0	0	0	0	805%	1610	1816	1964	1985	1994	1946	1893	1751	1326	154%	0	0	0	0	0	0	0	17244.	24
29	0	0	0	0	0	0	0	220	791	187	1823	1683	1299	1907	1933	1629	1510	543%	0	0	0	0	0	0	0	13528.	24
30	0	0	0	0	0	0	0	13	21	833	288	160	1156	1419	1743	1666	1380	404%	0	0	0	0	0	0	0	8684.	24
31	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	3	0	0	0	0	0	0	0	40.	24
AV	0	0	0	0	0	0	27	325	837	915	1069	1085	1164	1212	1038	1022	832	387	12	0	0	0	0	0	0	10127.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 62.

ATLANTA (GA TECH) YEAR 1981 MONTH 10  
GLOBAL HORIZ. KJ/M2

D A Y	HOUR																								T O T A L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	27	432	1135	1791	2326	2659	2377	2095	1868	1791	974	217	8	0	0	0	0	0	17697.	24	
2	0	0	0	0	0	0	33	463	1281	2012	2569	2970	3089	2947	2568	1972	1241	452	18	0	0	0	0	0	21612.	24	
3	0	0	0	0	0	0	33	490	1249	1946	2528	2886	2974	2856	2480	1882	1114	345	8	0	0	0	0	0	20787.	24	
4	0	0	0	0	0	0	20	394	1080	1792	2431	2780	2908	2776	2215	1655	943	381	6	0	0	0	0	0	19382.	24	
5	0	0	0	0	0	0	28	434	1121	1764	2311	2660	2747	2630	2046	1666	1004	297	4	0	0	0	0	0	16711.	24	
6	0	0	0	0	0	0	23	390	1080	1712	2263	2587	2744	2567	2025	968	664	153	3	0	0	0	0	0	17179.	24	
7	0	0	0	0	0	0	6	111	463	1079	1865	1790	2215	2641	1023	914	779	154	3	0	0	0	0	0	13044.	24	
8	0	0	0	0	0	0	7	119	383	985	2048	2701	2811	2718	2311	1708	910	245	5	0	0	0	0	0	16950.	24	
9	0	0	0	0	0	0	5	123	290	721	567	471	820	326	188	106	44	12	2	0	0	0	0	0	3478.	24	
10	0	0	0	0	0	0	4	11	23	165	415	294	322	471	480	181	84	30	2	0	0	0	0	0	2482.	24	
11	0	0	0	0	0	0	5	118	672	972	1143	1418	2198	2657	1838	1155	778	199	2	0	0	0	0	0	13154.	24	
12	0	0	0	0	0	0	12	290	788	1294	1929	2501	2489	2237	2248	1617	425	98	2	0	0	0	0	0	15926.	24	
13	0	0	0	0	0	0	20	371	913	1638	2259	2608	2601	2594	2125	1640	980	273	3	0	0	0	0	0	18024.	24	
14	0	0	0	0	0	0	15	374	1106	1790	2338	2677	2691	2685	2070	1628	795	176	1	0	0	0	0	0	17948.	24	
15	0	0	0	0	0	0	9	218	1021	1821	2115	1645	1968	1687	1184	1404	723	144	0	0	0	0	0	0	13939.	24	
16	0	0	0	0	0	0	10	328	1006	1680	2174	2523	2624	2460	2030	1532	695	238	0	0	0	0	0	0	17300.	24	
17	0	0	0	0	0	0	9	311	993	1622	2165	2517	2634	2364	1884	1451	797	252	0	0	0	0	0	0	17000.	24	
18	0	0	0	0	0	0	4	37	78	168	248	207	809	1428	1456	1157	738	149	0	0	0	0	0	0	6479.	24	
19	0	0	0	0	0	0	6	357	1094	1814	2259	2705	2818	2650	2270	1688	923	210	0	0	0	0	0	0	18794.	24	
20	0	0	0	0	0	0	6	352	1071	1756	2298	2655	2763	2587	2187	1599	864	186	0	0	0	0	0	0	18323.	24	
21	0	0	0	0	0	0	7	297	970	1587	2160	2521	2608	2481	2100	1471	408	106	0	0	0	0	0	0	16691.	24	
22	0	0	0	0	0	0	5	325	529	873	1867	1867	2044	1319	1317	709	423	94	0	0	0	0	0	0	11171.	24	
23	0	0	0	0	0	0	2	23	129	130	261	270	444	477	226	210	230	70	0	0	0	0	0	0	2472.	24	
24	0	0	0	0	0	0	4	135	380	764	1131	706	758	705	881	472	276	79	0	0	0	0	0	0	5291.	24	
25	0	0	0	0	0	0	2	19	96	165	203	241	395	240	182	109	36	10	0	0	0	0	0	0	1899.	24	
26	0	0	0	0	0	0	2	34	133	310	299	329	334	376	193	294	122	18	0	0	0	0	0	0	2443.	24	
27	0	0	0	0	0	0	1	105	421	435	1053	1144	1410	2054	938	1311	751	127	0	0	0	0	0	0	9751.	24	
28	0	0	0	0	0	0	4	202	897	1547	2063	2360	2455	2298	1929	1346	651	60	0	0	0	0	0	0	15812.	24	
29	0	0	0	0	0	0	3	154	781	862	2090	2388	2050	2430	1958	1327	690	109	0	0	0	0	0	0	14843.	24	
30	0	0	0	0	0	0	2	150	467	1218	1441	1623	2317	2188	1921	1353	663	100	0	0	0	0	0	0	13443.	24	
31	0	0	0	0	0	0	1	45	206	440	744	1040	989	964	823	509	287	41	0	0	0	0	0	0	6049.	24	
AV	0	0	0	0	0	0	10	233	705	1189	1657	1863	2006	1864	1579	1176	645	162	2	0	0	0	0	0	13189.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 63.

		ATLANTA (GA TECH) YEAR 1981 MONTH 10																										
		GLOBAL (RG630) KJ/M2																										
D A Y	HOUR																								TOTL	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	25	297	721	1102	1414	1590	1401	1212	1086	1081	595	139	8	0	0	0	0	0	0	10641.	24	
2	0	0	0	0	0	0	31	315	810	1234	1558	1773	1832	1751	1529	1183	760	292	12	0	0	0	0	0	0	13080.	24	
3	0	0	0	0	0	0	39	383	823	1221	1553	1757	1802	1721	1498	1151	704	222	3	0	0	0	0	0	0	12857.	24	
4	0	0	0	0	0	0	21	277	700	1106	1488	1676	1736	1651	1316	991	571	246	3	0	0	0	0	0	0	11781.	24	
5	0	0	0	0	0	0	29	311	729	1086	1386	1573	1616	1542	1198	987	810	182	1	0	0	0	0	0	0	11250.	24	
6	0	0	0	0	0	0	24	272	689	1050	1349	1527	1591	1481	1175	554	389	91	1	0	0	0	0	0	0	10192.	24	
7	0	0	0	0	0	0	14	89	288	645	1112	1055	1312	1569	593	536	473	102	4	0	0	0	0	0	0	7792.	24	
8	0	0	0	0	0	0	14	93	239	586	1220	1600	1660	1611	1379	1030	564	158	4	0	0	0	0	0	0	10157.	24	
9	0	0	0	0	0	0	10	93	181	416	319	263	339	181	109	75	47	19	2	0	0	0	0	0	0	2054.	24	
10	0	0	0	0	0	0	3	8	12	86	229	169	178	260	278	124	77	45	4	0	0	0	0	0	0	1473.	24	
11	0	0	0	0	0	0	10	82	399	559	649	807	1269	1561	1088	683	461	116	1	0	0	0	0	0	0	7688.	24	
12	0	0	0	0	0	0	12	187	475	762	1128	1470	1449	1293	1327	968	243	61	2	0	0	0	0	0	0	9377.	24	
13	0	0	0	0	0	0	18	248	572	1001	1362	1557	1551	1544	1272	987	605	177	3	0	0	0	0	0	0	10898.	24	
14	0	0	0	0	0	0	15	262	703	1090	1400	1588	1577	1565	1213	929	476	113	1	0	0	0	0	0	0	10732.	24	
15	0	0	0	0	0	0	10	136	645	1108	1261	966	1168	989	683	825	428	83	0	0	0	0	0	0	0	8301.	24	
16	0	0	0	0	0	0	13	237	643	1024	1295	1496	1537	1441	1193	912	417	151	0	0	0	0	0	0	0	10358.	24	
17	0	0	0	0	0	0	7	209	622	975	1288	1479	1533	1388	1095	856	483	161	0	0	0	0	0	0	0	10095.	24	
18	0	0	0	0	0	0	8	39	59	98	139	118	451	813	841	688	451	96	0	0	0	0	0	0	0	3802.	24	
19	0	0	0	0	0	0	9	271	731	1150	1408	1666	1717	1612	1384	1042	590	148	0	0	0	0	0	0	0	11727.	24	
20	0	0	0	0	0	0	12	279	733	1140	1446	1630	1685	1585	1346	991	556	129	0	0	0	0	0	0	0	11531.	24	
21	0	0	0	0	0	0	10	225	646	990	1312	1512	1557	1471	1263	893	242	66	0	0	0	0	0	0	0	10187.	24	
22	0	0	0	0	0	0	7	232	325	515	985	1078	1183	741	752	403	246	64	0	0	0	0	0	0	0	8531.	24	
23	0	0	0	0	0	0	5	39	100	96	156	159	253	278	154	132	146	59	0	0	0	0	0	0	0	1576.	24	
24	0	0	0	0	0	0	6	105	244	464	674	412	435	394	503	276	173	83	0	0	0	0	0	0	0	3749.	24	
25	0	0	0	0	0	0	5	38	84	117	132	147	211	137	116	79	37	23	0	0	0	0	0	0	0	1125.	24	
26	0	0	0	0	0	0	3	44	96	188	176	186	191	215	122	174	92	30	0	0	0	0	0	0	0	1518.	24	
27	0	0	0	0	0	0	3	101	294	268	619	662	618	1207	543	801	470	78	0	0	0	0	0	0	0	5864.	24	
28	0	0	0	0	0	0	3	151	577	964	1259	1428	1470	1367	1149	815	398	27	0	0	0	0	0	0	0	9608.	24	
29	0	0	0	0	0	0	4	100	499	507	1261	1411	1198	1434	1161	796	434	73	0	0	0	0	0	0	0	8880.	24	
30	0	0	0	0	0	0	2	97	272	735	851	948	1387	1288	1132	818	418	72	0	0	0	0	0	0	0	7996.	24	
31	0	0	0	0	0	0	2	47	134	259	424	587	551	352	477	302	170	38	0	0	0	0	0	0	0	3542.	24	
AV	0	0	0	0	0	0	12	169	453	727	995	1106	1182	1156	935	705	398	107	2	0	0	0	0	0	0	7947.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 64.

ATLANTA (GA TECH) YEAR 1981 MONTH 10

DIFFUSE HORIZ. KJ/M2

D A Y	HOUR																								T O T A L	H R		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	17	158	277	387	558	645	780	916	926	595	418	203	13	0	0	0	0	0	5888.	24		
2	0	0	0	0	0	0	13%	32%	33%	195	240	260	268	265	255	230	171	96	7	0	0	0	0	0	0	2065.	24	
3	0	0	0	0	0	0	8	78	118	146	177	198	239	230	203	194	151	77	6	0	0	0	0	0	0	1826.	24	
4	0	0	0	0	0	0	10	214	260	484	352	341	285	287	472	431	230	170	7	0	0	0	0	0	0	3545.	24	
5	0	0	0	0	0	0	12	109	171	232	295	351	378	384	487	331	258	127	5	0	0	0	0	0	0	3142.	24	
6	0	0	0	0	0	0	14	154	274	397	466	537	603	756	1382	864	525	180	5	0	0	0	0	0	0	6156.	24	
7	0	0	0	0	0	0	2	94	435	1017	1338	1347	1220	1094	982	827	626	156	3	0	0	0	0	0	0	9141.	24	
8	0	0	0	0	0	0	3	106	362	881	736	482	417	303	267	252	251	135	8	0	0	0	0	0	0	4201.	24	
9	0	0	0	0	0	0	2	111	274	690	544	452	598	318	185	111	72	40	1	0	0	0	0	0	0	3400.	24	
10	0	0	0	0	0	0	4	22	48	192	425	316	340	482	490	194	96	35	1	0	0	0	0	0	0	2645.	24	
11	0	0	0	0	0	0	2	95	828	919	1086	1325	995	728	1123	828%	424%	140	2	0	0	0	0	0	0	8302.	24	
12	0	0	0	0	0	0	6	231	680	1140	1488	1103	990%	801%	598%	586%	423	103	1	0	0	0	0	0	0	8151.	24	
13	0	0	0	0	0	0	12	247	440	555	579	608	572	537	505	373	180	91	2	0	0	0	0	0	0	4700.	24	
14	0	0	0	0	0	0	5	110	204	261	289	301	677	437	815	763	602	179	1	0	0	0	0	0	0	4842.	24	
15	0	0	0	0	0	0	4	98	323	332	711	1464	1562	1520	1125	600	285	122	0	0	0	0	0	0	0	8145.	24	
16	0	0	0	0	0	0	5	109	217	257	346	735	557	426	446	342	342	179	0	0	0	0	0	0	0	3962.	24	
17	0	0	0	0	0	0	5	132	279	375	424	476	521	715	677	475	414	218	0	0	0	0	0	0	0	4712.	24	
18	0	0	0	0	0	0	4	45	104	177	248	219	748	1189	1107	722	430	133	0	0	0	0	0	0	0	5125.	24	
19	0	0	0	0	0	0	2	70	144	180	199	218	216	218	200	170	122	47	0	0	0	0	0	0	0	1785.	24	
20	0	0	0	0	0	0	1	56	115	146	171	202	218	215	201	181	140	53	0	0	0	0	0	0	0	1899.	24	
21	0	0	0	0	0	0	2	93	186	252	285	301	325	339	348	500	322	95	0	0	0	0	0	0	0	3050.	24	
22	0	0	0	0	0	0	4	227	377	804	1335	1261	983	1084	885	596	388	106	0	0	0	0	0	0	0	8050.	24	
23	0	0	0	0	0	0	1	39	163	183	287	282	446	474	221	190	204	51	0	0	0	0	0	0	0	2520.	24	
24	0	0	0	0	0	0	1	95	316	654	946	655	705	858	807	441	252	63	0	0	0	0	0	0	0	5592.	24	
25	0	0	0	0	0	0	2	41	118	175	212	248	402	258	195	124	63	15	0	0	0	0	0	0	0	1853.	24	
26	0	0	0	0	0	0	2	58	160	326	310	342	347	410	237	317	151	30	0	0	0	0	0	0	0	2689.	24	
27	0	0	0	0	0	0	2	132%	157%	418	859	970	1028%	1045	751	779	281	74	0	0	0	0	0	0	0	6495.	24	
28	0	0	0	0	0	0	1	112%	217%	243	240	267	276	299	267	240	185	39	0	0	0	0	0	0	0	2387.	24	
29	0	0	0	0	0	0	1%	78	463	667	419	612	637%	524	332	330	199	59	0	0	0	0	0	0	0	4321.	24	
30	0	0	0	0	0	0	0	126	426	754	1145	1385	1111	818	495	359	228	63	0	0	0	0	0	0	0	6913.	24	
31	0	0	0	0	0	0	0	31	186	413	707	994	930	928	797	498	265	48	0	0	0	0	0	0	0	5798.	24	
AV	0	0	0	0	0	0	5	107	283	446	562	810	825	802	574	434	281	101	2	0	0	0	0	0	0	4810.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 65.

		ATLANTA (GA TECH)											YEAR 1981											MONTH 10												
		LAT. TILTED KJ/M2																																		
D A Y		HOUR																								TOTL	HR									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24											
1	0	0	0	0	0	0	34	548	1433	2257	2907	3326	2907	2489	2172	2223	1185	224	18	0	0	0	0	0	0	0	21724	24								
2	0	0	0	0	0	0	39	603	1642	2568	3259	3750	3735	3720	3262	2490	1595	618	31	0	0	0	0	0	0	0	27311	24								
3	0	0	0	0	0	0	52	685	1648	2522	3241	3676	3785	3631	3179	2406	1465	498	24	0	0	0	0	0	0	0	28811	24								
4	0	0	0	0	0	0	31	477	1403	2264	3115	3555	3732	3548	2807	2087	1224	500	21	0	0	0	0	0	0	0	24763	24								
5	0	0	0	0	0	0	40	602	1499	2310	3010	3422	3532	3374	2609	2130	1327	419	19	0	0	0	0	0	0	0	24295	24								
6	0	0	0	0	0	0	35	528	1432	2234	2941	3336	3514	3256	2251	985	762	155	18	0	0	0	0	0	0	0	21446	24								
7	0	0	0	0	0	0	27	83	368	1027	2114	2012	2598	3183	987	859	791	143	16	0	0	0	0	0	0	0	14209	24								
8	0	0	0	0	0	0	26	95	311	988	2616	3461	3627	3533	3051	2259	1247	349	15	0	0	0	0	0	0	0	21597	24								
9	0	0	0	0	0	0	25	110	243	630	476	396	526	273	150	85	71	66	13	0	0	0	0	0	0	0	3064	24								
10	0	0	0	0	0	0	25	66	67	166	369	260	274	408	417	154	86	68	12	0	0	0	0	0	0	0	2373	24								
11	0	0	0	0	0	0	25	111	629	896	1046	1413	2779	3456	2205	1328	983	261	12	0	0	0	0	0	0	0	15144	24								
12	0	0	0	0	0	0	24	293	814	1401	2211	3141	3232	2870	2956	2072	400	94	10	0	0	0	0	0	0	0	19516	24								
13	0	0	0	0	0	0	25	451	1184	2194	3045	3478	3468	3458	2873	2207	1416	438	8	0	0	0	0	0	0	0	24245	24								
14	0	0	0	0	0	0	25	575	1583	2471	3206	3601	3582	3595	2730	1527	899	176	7	0	0	0	0	0	0	0	23978	24								
15	0	0	0	0	0	0	22	288	1456	2492	2798	1728	2249	1805	1126	1857	1009	181	0	0	0	0	0	0	0	0	17013	24								
16	0	0	0	0	0	0	22	529	1475	2361	3016	3300	3514	3365	2788	2120	921	336	0	0	0	0	0	0	0	0	23746	24								
17	0	0	0	0	0	0	20	475	1435	2254	3000	3427	3568	3186	2527	1991	1064	324	0	0	0	0	0	0	0	0	23270	24								
18	0	0	0	0	0	0	19	70	82	136	202	175	780	1518	1619	1412	931	174	0	0	0	0	0	0	0	0	7119	24								
19	0	0	0	0	0	0	18	648	1675	2589	3179	3758	3899	3672	3196	2421	1458	422	0	0	0	0	0	0	0	0	26944	24								
20	0	0	0	0	0	0	17	665	1674	2556	3284	3693	3828	3610	3095	2299	1369	377	0	0	0	0	0	0	0	0	26468	24								
21	0	0	0	0	0	0	16	528	1505	2291	3076	3523	3633	3448	2956	1981	495	139	0	0	0	0	0	0	0	0	23591	24								
22	0	0	0	0	0	0	15	411	639	874	1990	2298	2597	1468	1546	763	433	101	0	0	0	0	0	0	0	0	13136	24								
23	0	0	0	0	0	0	14	71	125	122	239	236	383	416	191	168	180	84	0	0	0	0	0	0	0	0	2228	24								
24	0	0	0	0	0	0	13	120	375	606	1171	606	649	613	796	390	228	77	0	0	0	0	0	0	0	0	5846	24								
25	0	0	0	0	0	0	12	71	105	153	182	212	345	218	164	106	72	64	0	0	0	0	0	0	0	0	1703	24								
26	0	0	0	0	0	0	11	71	120	272	261	290	294	333	178	262	127	63	0	0	0	0	0	0	0	0	2280	24								
27	0	0	0	0	0	0	10	129	636	375	1098	1157	1574	2670	1014	1627	1174	206	0	0	0	0	0	0	0	0	11670	24								
28	0	0	0	0	0	0	8	284	1478	2340	3073	3455	3574	3343	2854	2050	1072	115	0	0	0	0	0	0	0	0	23649	24								
29	0	0	0	0	0	0	7	218	1033	925	3104	3349	2839	3462	2902	2019	1175	234	0	0	0	0	0	0	0	0	21266	24								
30	0	0	0	0	0	0	6	163	480	1623	1680	1814	3186	3189	2872	2069	1113	199	0	0	0	0	0	0	0	0	18392	24								
31	0	0	0	0	0	0	6	72	163	366	641	929	864	845	723	436	222	57	0	0	0	0	0	0	0	0	5324	24								
AV	0	0	0	0	0	0	22	324	926	1499	2115	2348	2551	2515	2006	1509	855	231	7	0	0	0	0	0	0	0	16907									
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744								

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FLAGS:

% - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 # - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 66.

ATLANTA (GA TECH) YEAR 1981 MONTH 10

INFRARED 10 KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	126	123	121%	122%	122%	121	124	135	139	140	140	131%	137%	142%	142	145	147	144	141	140	140	142	142	140	3246.	24	
2	147	148	141	135	121	116	120	125	124	121%	106%	106%	108%	107%	109%	112%	114	114	106%	103%	101%	100%	99%	98%	2780.	24	
3	98	97	96	96	96	96	99	114	116	116	111	108%	108%	109%	113%	116%	122	123%	114%	111%	111%	113%	111	108	2604.	24	
4	108	106	107	107	108	108	106	114	121	123	117	112%	117%	114%	122	126	128	131	121	119	119	118	117	115	2779.	24	
5	114	113%	112	113%	110	113	118	129	136	137	135	133	131	133	138	139	144	142	134	132%	131%	131%	129	129	3074.	24	
6	127	128	125	124%	124	124	126	137	143	146	143	131%	142	136%	153	158	153	153	154	143	140	142	141	138	3332.	24	
7	134	127	127	125	127	128	130	129	128	128	128	131	126%	120	132	133	132	135	126	125	123	128	130	130	3082.	24	
8	130	131	128	129	126	127	129	128	131	132	122	108%	110%	112%	114%	115%	128	126	119	115	114	113	114	114	2917.	24	
9	114	113	115	113	116	128	136	137	138	140	139	139	141	141	141	141	141	143	138	137	136	135	134	133	3187.	24	
10	134	130%	129%	129%	143%	148%	144%	132%	145%	143	140	141	140	142	143	141	138	138	136	136	136	136	136	136	3316.	24	
11	135	135	135	135	136	135	134	133	132	137	139	139	128	120%	133%	136	130	127	121	119	118	117	117	117	3110.	24	
12	118	115	114	123	128	127	128	123	129	130	128	124	124	122	126	129	138	136	133	123	126	125	123	124	3009.	24	
13	131	129	122	120	111	110	110	116	120	120	119	106%	111%	115	118	119	120	118	110	108	107	106	104	103	2751.	24	
14	103	102	102	101	100	100	101	112	118	119	104%	115	118	117	121	127	130	130	127	132	132	133	131	131	2807.	24	
15	133	128	131	131	126	116	122	120	133	117%	133	142	135	143	145	133	132	129	123	121	120	119	118	118	3069.	24	
16	117	116	116	118	115	118	117	128	133	134	133	133	130	131	135	136	141	136	127	126	129	122	126	129	3044.	24	
17	128	132	134	134	128	129	125	129	137	136	134	132	132	128%	139	140	143	140	134	134	133	133	132	133	3196.	24	
18	134	138	135	128	128	143	147	149	151	151	151	150	146	134	128	123	122	115	112	113	112	105	102%	102	3119.	24	
19	99%	98%	98%	96%	95%	95%	94%	107	111	108	105%	102	92%	93%	94%	95%	96%	106	99%	96%	98%	97%	96%	95%	2368.	24	
20	93	93	93	92	92	81	91	106	111	93%	96%	97%	108%	101%	113%	114	119	114%	107%	107%	106%	106%	105%	106%	2457.	24	
21	107	107	108	108	107	107	107	118	124	125	124	123	114%	125	127	131	132	128	125	127	126	128	124	122	2874.	24	
22	121	120	123	132	131	133	126	135	136	139	140	138	137	141	143	145	145	144	139	131	130	128	128	135	3220.	24	
23	141	141	138	142	141	143	141	143	145	148	146	141	137	136	135	131	127	123	116	104	97	101	104	102	3124.	24	
24	101	98	95	98	103	103	107	108	108	113	118	121	128	130	127	128	127	126	126	128	127	126	125	124	2794.	24	
25	123	123	129%	120%	131%	131%	127	128	128	129	129%	129	129	130	130	131	131	130	129	129	130	131	130	131	130	3085.	24
26	131	132	133	134	134	135	135	137	137	138	139	140	142	144	146	146	147	146	145	142	144	145	143	142	3356.	24	
27	134	128	128	134	138	137	136	136	140%	137	129	135	132	125	135	130	122	115	111	109	111	108	107	109	3022.	24	
28	119	113	107	107	107	108	107	111	121	123	125	123%	114%	123	125	129	130	125	120	119	117	118	120	122	2831.	24	
29	115	114	113	112	113	115	118	117	130	128	127	123	126	126	126	127	130	124	118	118	116	115	114	113	2877.	24	
30	112	111	108	108	107	106	108	112	120	125	130	132	122	119	121	124	126	121	116	115	125	135	135	134	2873.	24	
31	135	134	134	133	132	131	132	132	133	134	135	136	136	138	139	140	141	141	139	137	137	136	122	114	3220.	24	
AV	121	120	119	119	119	120	121	125	130	129	128	126	126	126	129	130	131	130	125	123	122	122	121	121	2985.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744		

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**FLAGS:**

- % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

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Table 67.

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 10	
		ULTRAVIOLET KJ/M2																											
D A Y	HOUR																								TOTL	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	0	20	52	84	110	127	118*	108	93	82	44	15	0	0	0	0	0	0	851.	24			
2	0	0	0	0	0	0	1	22	59	99	132	157	164	154	129	94	55	20	0	0	0	0	0	0	1085.	24			
3	0	0	0	0	0	0	0	22	59	97	131	150	152	144	120	84	46	16	0	0	0	0	0	0	1023.	24			
4	0	0	0	0	0	0	0	19	54	91	123	143	149	140	110	79	45	17	0	0	0	0	0	0	971.	24			
5	0	0	0	0	0	0	0	20	53	85	116	134	137	129	99	74	43	14	0	0	0	0	0	0	904.	24			
6	0	0	0	0	0	0	0	19	50	82	112	129	139	129	98	54	37	12	0	0	0	0	0	0	861.	24			
7	0	0	0	0	0	0	0	7	30	66	106	105	120*	136	64	54	40	10	0	0	0	0	0	0	738.	24			
8	0	0	0	0	0	0	0	7	25	60	113	146	151	140	113	78	41	13	0	0	0	0	0	0	888.	24			
9	0	0	0	0	0	0	0	7	20	46	40	35	46	26	16	10	7	3	0	0	0	0	0	0	257.	24			
10	0	0	0	0	0	0	0	2	5	18	36	28	30	41	38	15	8	2	0	0	0	0	0	0	222.	24			
11	0	0	0	0	0	0	0	6	39	61	73	90	127	136	94	62	40	12	0	0	0	0	0	0	740.	24			
12	0	0	0	0	0	0	0	15	42	73	106	135	135	123	111	78	28	8	0	0	0	0	0	0	850.	24			
13	0	0	0	0	0	0	0	16	45	84	118	139	137*	134	107	78	43	12	0	0	0	0	0	0	914.	24			
14	0	0	0	0	0	0	0	17	52	92	128	148	147	140	108	68	41	10	0	0	0	0	0	0	948.	24			
15	0	0	0	0	0	0	0	16%	51	91	114	93	105	91	70	71	38	11	0	0	0	0	0	0	750.	24			
16	0	0	0	0	0	0	0	16	48	85	114	131	135	124	99	70	34	10	0	0	0	0	0	0	867.	24			
17	0	0	0	0	0	0	0	15	47	81	112	131	135	118	93	67	35	10	0	0	0	0	0	0	843.	24			
18	0	0	0	0	0	0	0	2	8	14	20	19	57	88	83	63	36	8	0	0	0	0	0	0	399.	24			
19	0	0	0	0	0	0	0	15	51	91	118*	145	151	139	115	79	41	9	0	0	0	0	0	0	955.	24			
20	0	0	0	0	0	0	0	15	48	83	115	136	141	128	103	70	38	9	0	0	0	0	0	0	884.	24			
21	0	0	0	0	0	0	0	14	45	79	110	131	134	123	100	65	27	7	0	0	0	0	0	0	834.	24			
22	0	0	0	0	0	0	0	11	33	52	91	105	111	82	76	44	25	5	0	0	0	0	0	0	638.	24			
23	0	0	0	0	0	0	0	3	13	15	23	25	38	38	19	15	14	2	0	0	0	0	0	0	204.	24			
24	0	0	0	0	0	0	0	7	28	50	69	47	52	48	57	31	17	4	0	0	0	0	0	0	408.	24			
25	0	0	0	0	0	0	0	4	10	17	20*	24	36	23	18	12	6	1	0	0	0	0	0	0	171.	24			
26	0	0	0	0	0	0	0	6	14	27	28	32	32	34	19	26	12	3	0	0	0	0	0	0	232.	24			
27	0	0	0	0	0	0	0	6	29	29	63	69	85	112	57	59	32	5	0	0	0	0	0	0	546.	24			
28	0	0	0	0	0	0	0	10	42	76	106	121	124	114	92	60	30	6	0	0	0	0	0	0	760.	24			
29	0	0	0	0	0	0	0	9	35	50	104	123	110	121	95	62	31	6	0	0	0	0	0	0	745.	24			
30	0	0	0	0	0	0	0	9	32	67	82	94	125	118	98	65	31	5	0	0	0	0	0	0	728.	24			
31	0	0	0	0	0	0	0	1	12	29	49	69	63	63	53	33	18	2	0	0	0	0	0	0	393.	24			
AV	0	0	0	0	0	0	0	11	36	64	90	102	109	105	82	58	32	9	0	0	0	0	0	0	698.				
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744			

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 @ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 68.

ATLANTA (GA TECH) YEAR 1981 MONTH 10

AVAILABLE SUNSHINE %

D A Y	HOUR																								AVG	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	95	100	100	100	100	81%	63	87	99	100	0	0	0	0	0	0	0	77. 24	
2	0	0	0	0	0	0	0	83	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	94. 24		
3	0	0	0	0	0	0	57%	100	100	100	100	100	100	100	100	100	100	83	0	0	0	0	0	95. 24		
4	0	0	0	0	0	0	0	61	100	100	100	100	100	100	100	100	100	90	0	0	0	0	0	91. 24		
5	0	0	0	0	0	0	19	100	100	100	100	100	100	100	100	100	100	65	0	0	0	0	0	94. 24		
6	0	0	0	0	0	0	0	82	100	100	100	100	100	100	48	12	27	0	0	0	0	0	0	67. 24		
7	0	0	0	0	0	0	0	0	0	0	43	31	57%	82	0	18	0	0	0	0	0	0	0	17. 24		
8	0	0	0	0	0	0	0	0	0	8	84	100	100	100	100	100	100	60	0	0	0	0	0	66. 24		
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 24		
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 24		
11	0	0	0	0	0	0	0	0	0	0	0	2	52%	100	47%	33%	67%	25%	0	0	0	0	0	29. 24		
12	0	0	0	0	0	0	0	9	7	3	20%	79%	72%	69%	100%	90%	0	0	0	0	0	0	0	40. 24		
13	0	0	0	0	0	0	0	29	91	100	100	100	100	100	100	100	100	81	0	0	0	0	0	88. 24		
14	0	0	0	0	0	0	0	87	100	100	100	100	100	98%	100	84%	47	22	0	0	0	0	0	75. 24		
15	0	0	0	0	0	0	0	24	100	100	88	12	22	4	2	71	66	6	0	0	0	0	0	44. 24		
16	0	0	0	0	0	0	0	88	100	100	100	100	100	100	97	100	57	37	0	0	0	0	0	87. 24		
17	0	0	0	0	0	0	0%	87	98	100	100	100	100	91	89	99	92	27	0	0	0	0	0	86. 24		
18	0	0	0	0	0	0	0	0	0	0	0	0	3	11	28	44	45	4	0	0	0	0	0	12. 24		
19	0	0	0	0	0	0	4	100	100	100	100%	100	100	100	100	100	100	88	0	0	0	0	0	98. 24		
20	0	0	0	0	0	10	100	100	100	100	100	100	100	100	100	100	100	85	0	0	0	0	0	98. 24		
21	0	0	0	0	0	0	0	86	100	100	100	100	100	100	100	93	16	0	0	0	0	0	0	81. 24		
22	0	0	0	0	0	0	0	33	19	3	20	40	57	12	29	12	8	0	0	0	0	0	0	21. 24		
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 24		
24	0	0	0	0	0	0	0	0	0	4	8	0	0	0	0	0	0	0	0	0	0	0	0	1. 24		
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 24		
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 24		
27	0	0	0	0	0	0	0	0	25	0	10	7%	21%	60	12	56	100	24	0	0	0	0	0	29. 24		
28	0	0	0	0	0	0	0	28	100	100	100	100	100	100	100	97	8	0	0	0	0	0	0	86. 24		
29	0	0	0	0	0	0	0	16	59	12	100	93	78	100	100	100	56	0	0	0	0	0	0	74. 24		
30	0	0	0	0	0	0	0%	0	1	51	23	12	77	90	100	100	44	0	0	0	0	0	0	55. 24		
31	0	0	0	0	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 24		
AV	0	0	0	0	0	5	38	52	51	59	57	80	84	58	80	58	30	7	0	0	0	0	0	52.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744		

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

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Table 69.

ATLANTA (GA TECH) YEAR 1981 MONTH 11

DIRECT NORMAL KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	3	3	14	2607	3178	2804	2527	1951	2190	449	3	0	0	0	0	0	0	15729.	24	
2	0	0	0	0	0	0	0	162	778	1586	2578	2545	2780	2306	1383	399	57	2	0	0	0	0	0	0	14573.	24	
3	0	0	0	0	0	0	0	117	1555	1249	2209	132	47	3	4	3	3	2	0	0	0	0	0	0	5322.	24	
4	0	0	0	0	0	0	0	3	3	3	3	11	3	3	3	3	817	153	0	0	0	0	0	0	1004.	24	
5	0	0	0	0	0	0	0	91	14	3	3	131	1980	1858	1737	909	428	168	0	0	0	0	0	0	7322.	24	
6	0	0	0	0	0	0	0	619	2117	2691	2669	2968	3267	3308	3211	2958	2363	739X	0	0	0	0	0	0	26908.	24	
7	0	0	0	0	0	0	0	922	2686	3226	3471	3539	3601	3559	3412	3159	2425	772X	0	0	0	0	0	0	30771.	24	
8	0	0	0	0	0	0	0	999	2762	3239	3432	3539	3560	3526	3320	3017	2294	615X	0	0	0	0	0	0	30304.	24	
9	0	0	0	0	0	0	0	54	3	3	781	1004	482	512	56	27	28	46	0	0	0	0	0	0	2996.	24	
10	0	0	0	0	0	0	0	3	4	22	15	6	72	42	114	3	3	12	0	0	0	0	0	0	294.	24	
11	0	0	0	0	0	0	0	577	2029	2689	3007	3221	3258	3214	3022	2731	1986	442	0	0	0	0	0	0	26176.	24	
12	0	0	0	0	0	0	0	653	2132	2750	3006	3114	3143	3005	2867	2469	1671	245	0	0	0	0	0	0	25053.	24	
13	0	0	0	0	0	0	0	474	845	1276	2204	2454	1509	807	472	335	177	2	0	0	0	0	0	0	10554.	24	
14	0	0	0	0	0	0	0	512	2340	2966	3103	3269	3234	3126	2998	2640	1794	318	0	0	0	0	0	0	26300.	24	
15	0	0	0	0	0	0	0	681	2250	2822	3113	3201	3145	3049	2767	2395	1186	4	0	0	0	0	0	0	24612.	24	
16	0	0	0	0	0	0	0	2	3	3	3	3	3	3	17	86	153	2	0	0	0	0	0	0	275.	24	
17	0	0	0	0	0	0	0	16	1370	1803	1315	2009	3034	2829	2924	2837	2141	512X	0	0	0	0	0	0	20790.	24	
18	0	0	0	0	0	0	0	792	2552	3028	3208	3337	3467	3450	3293	2954	2294	488X	0	0	0	0	0	0	28864.	24	
19	0	0	0	0	0	0	0	11	149	28	4	3	48	556	1970	1391	473	2	0	0	0	0	0	0	4634.	24	
20	0	0	0	0	0	0	0	168	36	286	3	2	2	2	3	2	5	1	0	0	0	0	0	0	511.	24	
21	0	0	0	0	0	0	0	592	2275	2890	3223	3362	3426	3401	2923	1389	663X	281X	0	0	0	0	0	0	24426.	24	
22	0	0	0	0	0	0	0	524	1406	2589	2708	2176	1968	2382	3163	2846	2105	388X	0	0	0	0	0	0	22256.	24	
23	0	0	0	0	0	0	0	404	1817	1540	514	176	53	53	76	394	225	50	0	0	0	0	0	0	5301.	24	
24	0	0	0	0	0	0	0	2	646	2441	2517	140	1084	2031	1662	1488	1031	347X	0	0	0	0	0	0	13388.	24	
25	0	0	0	0	0	0	0	500	2043	2837	2926	3322	3343	3277	3112	2736	2015	387X	0	0	0	0	0	0	26499.	24	
26	0	0	0	0	0	0	0	466	2051	2685	3116	3271	3325	3296	2948	1819	242	2	0	0	0	0	0	0	23222.	24	
27	0	0	0	0	0	0	0	2	3	3	3	14	26	66	3	3	51	2	0	0	0	0	0	0	175.	24	
28	0	0	0	0	0	0	0	2	64	546	1298	1437	1869	2432	2182	1866	1502	271X	0	0	0	0	0	0	13469.	24	
29	0	0	0	0	0	0	0	9	2	284	4	7	4	3	3	3	3	1	0	0	0	0	0	0	323.	24	
30	0	0	0	0	0	0	0	2	3	3	2	2	2	2	2	2	3	1	0	0	0	0	0	0	25.	24	
AV	0	0	0	0	0	0	0	312	1131	1517	1768	1719	1818	1821	1720	1435	953	209	0	0	0	0	0	0	14403.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 70.

ATLANTA (GA TECH) YEAR 1981 MONTH 11

DIRECT (RG630) KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	4	4	10	1634	1982	1743	1582	1249	1458	313	6	0	0	0	0	0	0	9985.	24
2	0	0	0	0	0	0	0	127	534	1006	1593	1556	1709	1433	879	266	43	3	0	0	0	0	0	0	9149.	24
3	0	0	0	0	0	0	0	84	1051	776	1361	81	30	4	4	4	4	3	0	0	0	0	0	0	3402.	24
4	0	0	0	0	0	0	0	4	4	4	4	11	4	4	4	4	633	138	0	0	0	0	0	0	812.	24
5	0	0	0	0	0	0	0	79	12	4	4	82	1288	1192	1232	714	370	162	0	0	0	0	0	0	5138.	24
6	0	0	0	0	0	0	0	517	1554	1815	1750	1922	2094	2118	2067	1966	1703	628	0	0	0	0	0	0	18136.	24
7	0	0	0	0	0	0	0	694	1878	2102	2200	2224	2256	2236	2168	2069	1736	649	0	0	0	0	0	0	20212.	24
8	0	0	0	0	0	0	0	756	1943	2123	2186	2216	2224	2224	2154	2040	1724	552	0	0	0	0	0	0	20142.	24
9	0	0	0	0	0	0	0	49	3	3	48	621	300	321	34	19	25	46	0	0	0	0	0	0	1904.	24
10	0	0	0	0	0	0	0	3	4	16	10	5	46	28	77	4	4	15	0	0	0	0	0	0	213.	24
11	0	0	0	0	0	0	0	516	1566	1896	2037	2121	2140	2126	2046	1921	1549	411	0	0	0	0	0	0	18330.	24
12	0	0	0	0	0	0	0	573	1606	1895	2003	2054	2072	2014	1956	1770	1340	233	0	0	0	0	0	0	17516.	24
13	0	0	0	0	0	0	0	345	678	852	1422	1490	922	499	304	218	131	2	0	0	0	0	0	0	6579.	22
14	0	0	0	0	0	0	0	351	1493	1838	1966	2125	2173	2115	2046	1883	1439	305	0	0	0	0	0	0	17734.	24
15	0	0	0	0	0	0	0	602	1708	1975	2089	2108	2069	2038	1925	1750	954	6	0	0	0	0	0	0	17223.	24
16	0	0	0	0	0	0	0	3	3	3	3	3	4	4	14	74	134	2	0	0	0	0	0	0	248.	24
17	0	0	0	0	0	0	0	16	1075	1297	887	1323	1957	1822	1804	1916	1598	446	0	0	0	0	0	0	14241.	24
18	0	0	0	0	0	0	0	648	1805	1977	2021	2096	2170	2120	2100	1971	1673	427	0	0	0	0	0	0	19008.	24
19	0	0	0	0	0	0	0	11	124	21	4	5	32	358	1276	953	381	2	0	0	0	0	0	0	3167.	24
20	0	0	0	0	0	0	0	144	28	189	3	3	9	3	3	3	5	3	0	0	0	0	0	0	393.	24
21	0	0	0	0	0	0	0	527	1747	2015	2140	2178	2210	2192	1912	913	378	265	0	0	0	0	0	0	16478.	24
22	0	0	0	0	0	0	0	434	1039	1745	1750	1381	1192	1502	2063	1936	1590	353	0	0	0	0	0	0	14985.	24
23	0	0	0	0	0	0	0	360	1404	1100	342	107	33	33	49	276	167	50	0	0	0	0	0	0	3920.	24
24	0	0	0	0	0	0	0	2	479	1693	1657	92	706	1318	1102	1067	837	320	0	0	0	0	0	0	9275.	24
25	0	0	0	0	0	0	0	436	1518	1919	1911	2129	2132	2103	2043	1891	1543	352	0	0	0	0	0	0	17978.	24
26	0	0	0	0	0	0	0	414	1530	1835	2009	2066	2098	2104	1921	1226	172	2	0	0	0	0	0	0	15377.	24
27	0	0	0	0	0	0	0	3	4	4	4	10	17	39	4	4	42	2	0	0	0	0	0	0	132.	24
28	0	0	0	0	0	0	0	2	44	352	818	892	1159	1523	1399	1250	1116	240	0	0	0	0	0	0	8793.	24
29	0	0	0	0	0	0	0	9	3	183	4	4	4	3	3	4	4	2	0	0	0	0	0	0	222.	24
30	0	0	0	0	0	0	0	2	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	0	32.	24
AV	0	0	0	0	0	0	0	254	833	1022	1143	1096	1160	1169	1131	986	720	188	0	0	0	0	0	0	9702.	s
HR	30	30	30	30	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	718	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

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Table 71.

		ATLANTA (GA TECH)												YEAR 1981		MONTH 11		GLOBAL HORIZ. KJ/M2												TOTL	HR
D A Y		HOUR												14	15	16	17	18	19	20	21	22	23	24	TOTL	HR					
		1	2	3	4	5	6	7	8	9	10	11	12														13				
1	0	0	0	0	0	0	0	98	391	834	1941	2343	2311	2225	1700	1264	404	37	0	0	0	0	0	0	13546.	24					
2	0	0	0	0	0	0	0	208	561	1287	1884	2176	2472	2169	1487	864	370	63	0	0	0	0	0	0	0	13641.	24				
3	0	0	0	0	0	0	0	110	871	1126	1941	1177	1042	744	641	408	209	35	0	0	0	0	0	0	0	8303.	24				
4	0	0	0	0	0	0	0	55	215	275	644	700	779	598	495	587	458	49	0	0	0	0	0	0	0	4856.	24				
5	0	0	0	0	0	0	0	210	274	416	634	924	2129	1863	1475	889	388	55	0	0	0	0	0	0	0	9258.	24				
6	0	0	0	0	0	0	0	159	741	1360	1888	2143	2399	2271	1908	1339	645	83	0	0	0	0	0	0	0	14935.	24				
7	0	0	0	0	0	0	0	168	811	1507	2039	2360	2474	2323	1941	1363	636	81	0	0	0	0	0	0	0	15702.	24				
8	0	0	0	0	0	0	0	171	802	1474	1975	2311	2408	2265	1862	1275	588	63	0	0	0	0	0	0	0	15194.	24				
9	0	0	0	0	0	0	0	70	184	253	1265	1865	1605	1537	1062	678	343	42	0	0	0	0	0	0	0	8882.	24				
10	0	0	0	0	0	0	0	71	283	435	878	945	1000	694	779	563	263	32	0	0	0	0	0	0	0	5741.	24				
11	0	0	0	0	0	0	0	132	680	1329	1840	2190	2301	2171	1787	1225	552	58	0	0	0	0	0	0	0	14265.	24				
12	0	0	0	0	0	0	0	130	675	1328	1835	2143	2237	1971	1705	1130	486	43	0	0	0	0	0	0	0	13683.	24				
13	0	0	0	0	0	0	0	161	508	1040	1838	2140	1910	1507	1132	764	362	38	0	0	0	0	0	0	0	11401.	24				
14	0	0	0	0	0	0	0	122	696	1331	1799	2140	2224	2072	1733	1164	500	46	0	0	0	0	0	0	0	13827.	24				
15	0	0	0	0	0	0	0	121	678	1319	1834	2143	2227	2066	1676	1127	454	21	0	0	0	0	0	0	0	13665.	24				
16	0	0	0	0	0	0	0	37	74	193	289	390	331	530	612	363	301	25	0	0	0	0	0	0	0	3145.	24				
17	0	0	0	0	0	C	0	56	583	1108	1346	1885	2249	2055	1673	1171	519	46	0	0	0	0	0	0	0	12689.	24				
18	0	0	0	0	0	0	0	103	659	1296	1789	2008	2227	2098	1746	1171	516	38	0	0	0	0	0	0	0	13651.	24				
19	0	0	0	0	0	0	0	61	359	534	533	565	788	1320	1530	969	322	13	0	0	0	0	0	0	0	6994.	24				
20	0	0	0	0	0	0	0	78	298	699	298	265	366	475	477	437	259	25	0	0	0	0	0	0	0	3677.	24				
21	0	0	0	0	0	0	0	89	621	1272	1815	2135	2234	2115	1732	173	395	38	0	0	0	0	0	0	0	13320.	24				
22	0	0	0	0	0	0	0	82	472	1210	1869	1943	1831	1773	1697	1132	486	35	0	0	0	0	0	0	0	12529.	24				
23	0	0	0	0	0	0	0	73	513	862	1065	1016	971	947	661	652	225	26	0	0	0	0	0	0	0	7010.	24				
24	0	0	0	0	0	0	0	20	455	1150	1664	700	1416	1780	1289	820	340	40	0	0	0	0	0	0	0	9675.	24				
25	0	0	0	0	0	0	0	78	565	1200	1649	2017	2152	1997	1644	1072	450	32	0	0	0	0	0	0	0	12856.	24				
26	0	0	0	0	0	0	0	66	541	1148	1686	2008	2116	2004	1629	972	303	19	0	0	0	0	0	0	0	12490.	24				
27	0	0	0	0	0	0	0	16	90	131	172	891	685	795	581	277	241	8	0	0	0	0	0	0	0	3887.	24				
28	0	0	0	0	0	0	0	26	312	810	1351	1615	1856	1891	1467	959	413	33	0	0	0	0	0	0	0	10732.	24				
29	0	0	0	0	0	0	0	26	232	789	587	734	846	515	344	212	76	8	0	0	0	0	0	0	0	4370.	24				
30	0	0	0	0	0	0	0	7	14	60	85	88	92	67	122	93	25	6	0	0	0	0	0	0	0	658.	24				
AV	0	0	0	0	0	0	0	93	475	926	1341	1532	1656	1561	1288	861	384	38	0	0	0	0	0	0	0	10153.					
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720				

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 72.

		ATLANTA (GA TECH)												YEAR 1981			MONTH 11			GLOBAL (RG630) KJ/M2							
D A Y	HOUR																								T O T A L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	77	240	494	1168	1402	1371	1311	1003	760	244	31	0	0	0	0	0	0	8103.	24	
2	0	0	0	0	0	0	0	145	419	782	1133	1282	1451	1270	865	503	222	41	0	0	0	0	0	0	8114.	24	
3	0	0	0	0	0	0	0	75	568	684	1169	672	589	416	364	237	123	26	0	0	0	0	0	0	4924.	24	
4	0	0	0	0	0	0	0	41	128	159	367	394	418	322	275	340	285	23	0	0	0	0	0	0	2752.	24	
5	0	0	0	0	0	0	0	136	159	230	360	532	1287	1113	893	541	229%	32	0	0	0	0	0	0	5511.	24	
6	0	0	0	0	0	0	0	109	488	881	1149	1296	1443	1367	1149	823	409	56	0	0	0	0	0	0	9170.	24	
7	0	0	0	0	0	0	0	128	550	960	1265	1451	1506	1413	1182	846	408	55	0	0	0	0	0	0	9766.	24	
8	0	0	0	0	0	0	0	139	561	958	1245	1427	1474	1382	1144	801	382	42	0	0	0	0	0	0	9554.	24	
9	0	0	0	0	0	0	0	62	115	161	771	1137	962	920	630	404	214	32	0	0	0	0	0	0	5408.	24	
10	0	0	0	0	0	0	0	59	181	268	405	557	590	403	462	338	166	26	0	0	0	0	0	0	3454.	24	
11	0	0	0	0	0	0	0	102	474	876	1173	1370	1419	1333	1100	768	359	39	0	0	0	0	0	0	9014.	24	
12	0	0	0	0	0	0	0	104	474	859	1147	1332	1382	1221	1060	719	319	28	0	0	0	0	0	0	8647.	24	
13	0	0	0	0	0	0	0	133%	344	667	1153	1331	1186	936	704	482	237	29	0	0	0	0	0	0	7202.	24	
14	0	0	0	0	0	0	0	102	503	897	1164	1360	1408	1308	1085	745	332	33	0	0	0	0	0	0	8938.	24	
15	0	0	0	0	0	0	0	104	481	871	1155	1325	1359	1262	1038	712	290	14	0	0	0	0	0	0	8613.	24	
16	0	0	0	0	0	0	0	37	65	133	191	255	223	334	379	228	191	17	0	0	0	0	0	0	2053.	24	
17	0	0	0	0	0	0	0	52	407	720	829	1160	1375	1252	1018	735	344	36	0	0	0	0	0	0	7928.	24	
18	0	0	0	0	0	0	0	94	465	850	1115	1240	1366	1274	1063	730	334	27	0	0	0	0	0	0	8558.	24	
19	0	0	0	0	0	0	0	49	231	320	308	328	455	759	896	578	197	12	0	0	0	0	0	0	4133.	24	
20	0	0	0	0	0	0	0	64	196	433	188	169	227	293	297	279	183	31	0	0	0	0	0	0	2360.	24	
21	0	0	0	0	0	0	0	91%	455	853	1154	1343	1395	1314	1077	546	274	40	0	0	0	0	0	0	8542.	24	
22	0	0	0	0	0	0	0	85%	346	811	1186	1210	1125	1081	1049	718	322	26	0	0	0	0	0	0	7959.	24	
23	0	0	0	0	0	0	0	63	373	586	677	615	593	579	400	413	146	27	0	0	0	0	0	0	4474.	24	
24	0	0	0	0	0	0	0	43%	284	774%	1039%	415	855	1080	771	508	220	34	0	0	0	0	0	0	6024.	24	
25	0	0	0	0	0	0	0	71	399	787	1043	1251	1322	1221	1007	674	295	22	0	0	0	0	0	0	8094.	24	
26	0	0	0	0	0	0	0	59	379	751	1049	1230	1289	1214	990	593	184	12	0	0	0	0	0	0	7751.	24	
27	0	0	0	0	0	0	0	14	59	78	95	496	380	434	319	158	142	5	0	0	0	0	0	0	2180.	24	
28	0	0	0	0	0	0	0	26	195	499	824	976	1115	1130	883	588	263	24	0	0	0	0	0	0	6523.	24	
29	0	0	0	0	0	0	0	32	155	492	347	426	487	294	199	127	55	11	0	0	0	0	0	0	2625.	24	
30	0	0	0	0	0	0	0	9	20	44	48	48	50	40	77	70	37	6	0	0	0	0	0	0	452.	24	
AV	0	0	0	0	0	0	0	77	324	596	831	934	1003	942	779	532	247	28	0	0	0	0	0	0	6294.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 73.

ATLANTA (GA TECH) YEAR 1981 MONTH 11

DIFFUSE HORIZ. KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	80	364	783	437	309	440	615	606	379	267	46	0	0	0	0	0	0	0	4326.	24
2	0	0	0	0	0	0	0	172	430	559	428	567	632	709	703	668	355	73	0	0	0	0	0	0	0	5296.	24
3	0	0	0	0	0	0	0	78	438	539	696	1043	980	734	634	413	217	42	0	0	0	0	0	0	0	5814.	24
4	0	0	0	0	0	0	0	48	204	266	621	683%	753	578	483	570	300	33	0	0	0	0	0	0	0	4538.	24
5	0	0	0	0	0	0	0	177	248	391	603	809	836	705	547	525	302	44	0	0	0	0	0	0	0	5187.	24
6	0	0	0	0	0	0	0	28%	43%	55%	232%	270%	309	265	228	184	121	28	0	0	0	0	0	0	0	1763.	24
7	0	0	0	0	0	0	0	37	110	142	161	185	186	180	162%	25%	22%	21	0	0	0	0	0	0	0	1231.	24
8	0	0	0	0	0	0	0	29	90	122	146	164	177	176	168	137	103	21	0	0	0	0	0	0	0	1333.	24
9	0	0	0	0	0	0	0	36	132	223	782	1195	1242	1172	998	653	337	41	0	0	0	0	0	0	0	6810.	24
10	0	0	0	0	0	0	0	51	248	390	829	897	908	641	687	544	258	30	0	0	0	0	0	0	0	5283.	24
11	0	0	0	0	0	0	0	47	168	232	267	275	294	297	269	210	140	25	0	0	0	0	0	0	0	2224.	24
12	0	0	0	0	0	0	0	39	150	220	275	305	314	295	277	225	140	23	0	0	0	0	0	0	0	2264.	24
13	0	0	0	0	0	0	0	95	272	493	654	665	936	984	840	600	299	33	0	0	0	0	0	0	0	5870.	24
14	0	0	0	0	0	0	0	35	123	158	204	230	265	282	251	208	137	22	0	0	0	0	0	0	0	1915.	24
15	0	0	0	0	0	0	0	36	145	214	249	286	330	328	318	267	196	23	0	0	0	0	0	0	0	2392.	24
16	0	0	0	0	0	0	0	15	51	204	293	386	322	504	574	316	254	23	0	0	0	0	0	0	0	2942.	24
17	0	0	0	0	0	0	0	41	247	415	647	702	437	450	255	170	111	17	0	0	0	0	0	0	0	3491.	24
18	0	0	0	0	0	0	0	22	94	157	189	187	186	172	162	144	89	12	0	0	0	0	0	0	0	1413.	24
19	0	0	0	0	0	0	0	46	300	494	509	544	737	975	567	473	233	21	0	0	0	0	0	0	0	4900.	24
20	0	0	0	0	0	0	0	54	260	535	267	239	336	440	445	408	238	19	0	0	0	0	0	0	0	3240.	24
21	0	0	0	0	0	0	0	23	128	202	227	245	231	225	325	325	276	22	0	0	0	0	0	0	0	2228.	24
22	0	0	0	0	0	0	0	25	161	248	532	692	700%	457%	195	155	94	11	0	0	0	0	0	0	0	3269.	24
23	0	0	0	0	0	0	0	23	128	320	771	866	886	874	601	514	165	22	0	0	0	0	0	0	0	5171.	24
24	0	0	0	0	0	0	0	28	252%	306%	449%	593	762	653	453	308	181	14	0	0	0	0	0	0	0	3981.	24
25	0	0	0	0	0	0	0	27	140	196	243	199	248	227	197	161	97	13	0	0	0	0	0	0	0	1749.	24
26	0	0	0	0	0	0	0	22	133	209	213	231	229	223	255	337	245	20	0	0	0	0	0	0	0	2117.	24
27	0	0	0	0	0	0	0	14	89	130	169	854	658	739	577	287	239	11	0	0	0	0	0	0	0	3768.	24
28	0	0	0	0	0	0	0	18	272	583	704	796	769	564	441	337	139	15	0	0	0	0	0	0	0	4638.	24
29	0	0	0	0	0	0	0	17	210	657	554	694	807	493	329	203	71	5	0	0	0	0	0	0	0	4039.	24
30	0	0	0	0	0	0	0	10	35	88	112	112	113	91	143	108	45	4	0	0	0	0	0	0	0	863.	24
AV	0	0	0	0	0	0	0	46	189	318	409	507	534	502	423	328	188	24	0	0	0	0	0	0	0	3468.	
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 74.

		ATLANTA (GA TECH)											YEAR 1981											MONTH 11				
		LAT. TILTED KJ/M2																										
D A Y	1	2	3	4	5	6	7	8	9	10	11	HOUR											24	TOTL	HR			
												12	13	14	15	16	17	18	19	20	21	22				23		
1	0	0	0	0	0	0	0	91%	338	803	2891	3478	3396	3206	2428	1952	553	57	0	0	0	0	0	0	0	19194.	24	
2	0	0	0	0	0	0	0	271	948	1885	2869	3144	3600%	3100	2018	1022	400	79%	0	0	0	0	0	0	0	19338.	24	
3	0	0	0	0	0	0	0	158	1339	1641	2859	1254	975	640	572	349	190	63%	0	0	0	0	0	0	0	10041.	24	
4	0	0	0	0	0	0	0	85	168	242	544	599	659	510	435	601	674	115%	0	0	0	0	0	0	0	4633.	24	
5	0	0	0	0	0	0	0	219	241	349	561	961	3074%	2651	2149%	1212	494	125%	0	0	0	0	0	0	0	12036.	24	
6	0	0	0	0	0	0	0	312	1333	2271	2887	3274	3661	3477	2971	2202	1246	239%	0	0	0	0	0	0	0	23873.	24	
7	0	0	0	0	0	0	0	384	1517	2470	3198	3628	3780	3568	3045	2262	1249	245%	0	0	0	0	0	0	0	25347.	24	
8	0	0	0	0	0	0	0	399	1528	2444	3124	3577	3687	3499	2936	2146	1182	199%	0	0	0	0	0	0	0	24721.	24	
9	0	0	0	0	0	0	0	82	132	210	1613	2458%	2019%	1948%	1125%	707	377	73	0	0	0	0	0	0	0	10745.	24	
10	0	0	0	0	0	0	0	81	250	396	648	853	992	716	846%	505	225	48	0	0	0	0	0	0	0	5560.	24	
11	0	0	0	0	0	0	0	282	1266	2211	2934	3422	3568	3384	2846	2078	1096	161	0	0	0	0	0	0	0	23249.	24	
12	0	0	0	0	0	0	0	291	1284	2218	2927	3345	3471	3103%	2735	1925	964	119	0	0	0	0	0	0	0	22332.	24	
13	0	0	0	0	0	0	0	283	808	1581	2753	3196	2686%	2000%	1428%	935	435	50	0	0	0	0	0	0	0	16156.	24	
14	0	0	0	0	0	0	0	261	1379	2296	2929	3385	3487	3267	2903	2016	1012	128	0	0	0	0	0	0	0	22963.	24	
15	0	0	0	0	0	0	0	295	1334	2259	2978	3399	3510	3268	2699	1925	825	40	0	0	0	0	0	0	0	22532.	24	
16	0	0	0	0	0	0	0	49	69	177	250	349	288	479	578	384	337	38	0	0	0	0	0	0	0	2999.	24	
17	0	0	0	0	0	0	0	75	1056	1839	1990%	2797	3546	3215	2745	2087	1128	164	0	0	0	0	0	0	0	20642.	24	
18	0	0	0	0	0	0	0	310	1395	2289	2956	3267	3577	3394	2895	2112	1166	153	0	0	0	0	0	0	0	23513.	24	
19	0	0	0	0	0	0	0	65	401	553%	473	490	744	1695%	2386%	1536	501	35	0	0	0	0	0	0	0	8880.	24	
20	0	0	0	0	0	0	0	120	283	788	265	229	311	426	431	398	247	39	0	0	0	0	0	0	0	3534.	24	
21	0	0	0	0	0	0	0	245	1309	2275	3003	3424	3616	3444	2925	1403%	613	87%	0	0	0	0	0	0	0	22245.	24	
22	0	0	0	0	0	0	0	221	956	2139	2901	2903	2777%	2805	2856	2087	1110	126	0	0	0	0	0	0	0	20883.	24	
23	0	0	0	0	0	0	0	180	1075	1456%	1386%	1098	969	959	674	806	333	39	0	0	0	0	0	0	0	8974.	24	
24	0	0	0	0	0	0	0	42	647	2092	2662	765	1854	2628	1986	1400	658	125	0	0	0	0	0	0	0	14860.	24	
25	0	0	0	0	0	0	0	206	1196	2184	2778	3325	3486	3259	2785	1986	1052	122	0	0	0	0	0	0	0	22379.	24	
26	0	0	0	0	0	0	0	187	1181	2112	2876	3324	3477	3293	2729	1648	421	33	0	0	0	0	0	0	0	21281.	24	
27	0	0	0	0	0	0	0	37	71	101	137	824	668	859%	498	241	253	30	0	0	0	0	0	0	0	3718.	24	
28	0	0	0	0	0	0	0	36	329	1097	1993	2353%	2780%	2946	2392	1684	903	116	0	0	0	0	0	0	0	16628.	24	
29	0	0	0	0	0	0	0	38	192	960	532	713	798	446	292	177	71	30	0	0	0	0	0	0	0	4248.	24	
30	0	0	0	0	0	0	0	34	55	62	71	74	78	67	104	87	55	29	0	0	0	0	0	0	0	718.	24	
AV	0	0	0	0	0	0	0	178	803	1447	2000	2197	2385	2275	1907	1329	659	97	0	0	0	0	0	0	0	15276.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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FLAGS:

% - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 75.

		ATLANTA (GA TECH)																				YEAR 1931		MONTH 11			
		INFRARED 10 KJ/M2																									
D	HOUR																								TOTL	HR	
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	----	----	
Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	----
1	114	113	111	126	135	134	135	136	137	138	127	124	124	126	129	132	143	145	139	144	145	139	135	141	3172.	24	
2	137	140	138	138	138	135	129	128	134	136	137	136	135	135	137	141	140	133	129	128	129	129	132	126	3217.	24	
3	123	123	125	121	121	123	124	125	139	139	140	142	144	149	152	151	147	143	145	144	146	144	143	146	3300.	24	
4	145	145	145	144	142	139	139	144	146	149	147	147	146	147	147	149	145	133	131	131	130	130	133	137	3391.	24	
5	137	138	136	137	137	132	130	137	142	144	146	147	131%	143%	142	146	143	138	145	131	131	122	121	120	3275.	24	
6	119	116	112	109	109	109	110	115	125	129	125	122\$	119	118	119	120	122	113	107%	106	105	103	102	101	2732.	24	
7	100	100	100	99	98	97	97	104	114	113	110	110	109	102%	110	113	115	108%	103%	102%	103	102	102	100	2511.	24	
8	100	98	98	97	97	96	96	102%	113	113	116%	115%	116	108%	119	123	124	116%	112	111	112	111	111	108	2614.	24	
9	108	107	105	107	110	112	117	122	128	133	132	133	134	134	139	137	135	131	126	128	121	123	125	133	2980.	24	
10	130	123	120	123	124	127	128	127	126	130	132	132	131	132	131	130	128	126	121	118	115	115	114	112	2994.	24	
11	110	109	108	107	106	106	105	109	117	118	119	109%	110%	111%	120	123	124	116	109	108	106	105	104	104	2665.	24	
12	104	104	105	105	106	104	104	109	119	121	120	108%	118	120%	121	124	124	116	112	111	110	107	106	105	2681.	24	
13	105	104	102	101	101	100	100	105	109	111	113	112	114	118	121	122	120	114	111	109	110	109	106	106	2626.	24	
14	103	100	99	98	98	97	96	99	112%	115%	114%	113%	102%	115	116	120	120	113	110	109	108	107	106	105	2578.	24	
15	104	104	103	102	102	102	102	106	116	117	118	106%	121	121	123	126	126	118	120	117	117	127	125	124	2748.	24	
16	127	130	126	114	112	126	132	133	137	140	142	141	140	140	139	139	130	120	121	116	110	110	122	131	3080.	24	
17	132	130	118	107	107	130	127	122	118	121	122	125	119	109%	116	121	121	113	106	107	105	105	107	104	2794.	24	
18	104	103	102	102	102	101	102	108	116	120	119	120%	121	120	121	124	111%	117	113	112	113	111	113	111	2686.	24	
19	109	110	110	112	114	119	137	133	138	143	148	149	150	144	140	144	144	140%	149	140	139	145	149	151	3260.	24	
20	149	143	131	116	103	99	99	109	122	122	123	114%	122%	122	123	121	119	116	113	113	104	112	110	95	2799.	24	
21	95	94	92	87	87	86	86	90	102	104	102	102	102	102	103	108	117%	122%	113%	101%	100%	106%	98	95%	2397.	24	
22	95%	90	89	86%	90	90	87%	94%	91%	103%	107%	113%	99%	100%	101%	101%	104%	101%	102	101	100	99	99	101	2341.	24	
23	104	104	99	98	97	98	97	98	103	113	117%	122	125	126	129	129	131	122	127	126	129	132	131	133	2826.	24	
24	133	134	134	133	130	132	131	132	123	125	128%	130	126	121%	115	114	113	104	101	100%	99	98	97	97	2850.	24	
25	97	97	97	97	97	97	97	102	112	116	114	116	115	104%	118	122	121	113	110	110	109	109	108	107	2586.	24	
26	107	106	105	105	104	103	103	105	117	122	121	121	122	123	124	128	126	124	123	123	121	122	122	122	2799.	24	
27	122	123%	139	144	144	142	146	148	149	150	150	148	153	147	151	153	149	149	146	151	146	147	144	148	3493.	24	
28	141	142	123	135	136	135	134	134	120	120	121	122	123	122	121	123	121	113	111	110	109	112	108	108	2944.	24	
29	108	107	107	107	106	116	117	129	129	130	135	135	137	137	138	136	137	136	136	135	132	131	131	133	3046.	24	
30	133	133	132	131	131	131	132	133%	129%	129%	129%	129%	128%	149%	142%	126%	145%	142%	140%	138%	135%	136%	137%	137%	3232.	24	
AV	117	116	114	113	113	114	115	118	123	126	126	125	126	125	127	128	128	123	121	119	118	118	118	118	2887.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720		

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 76.

ATLANTA (GA TECH) YEAR 1981 MONTH 11

ULTRAVIOLET KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	5%	24	50	104	124	123	116	88	62	23	3	0	0	0	0	0	0	721.	24
2	0	0	0	0	0	0	0	9	33	67	97	114	126	111	79	49	22	5	0	0	0	0	0	0	711.	24
3	0	0	0	0	0	0	0	8	39	61	96	73	66	49	41	27	17	3	0	0	0	0	0	0	478.	24
4	0	0	0	0	0	0	0	4	16	19	41	46	52	40	33	34	19	4	0	0	0	0	0	0	309.	24
5	0	0	0	0	0	0	0	6	14	28	41	55	101	89	70	41	20	3	0	0	0	0	0	0	468.	24
6	0	0	0	0	0	0	0	7	34	67	95	108	121	111	89	59	27	4	0	0	0	0	0	0	721.	24
7	0	0	0	0	0	0	0	7	35	71	101	120	125	115	91	60	27	4	0	0	0	0	0	0	755.	24
8	0	0	0	0	0	0	0	7	35	68	95	113	117	108	83	53	22	3	0	0	0	0	0	0	704.	24
9	0	0	0	0	0	0	0	1%	8	16	67	94	85	81	59	39	19	2	0	0	0	0	0	0	471.	24
10	0	0	0	0	0	0	0	3%	17	27	40	56	61	47	47	33	15	2	0	0	0	0	0	0	349.	24
11	0	0	0	0	0	0	0	5	29	59	84	103	109	101	79	52	23	3	0	0	0	0	0	0	647.	24
12	0	0	0	0	0	0	0	5%	28	59	86	103	107	91	75	47	20	2	0	0	0	0	0	0	622.	24
13	0	0	0	0	0	0	0	4%	24	52	88	104	95	76	58	38	17	2	0	0	0	0	0	0	559.	24
14	0	0	0	0	0	0	0	4%	28	59	80	97	99	90	74	48	21	2	0	0	0	0	0	0	603.	24
15	0	0	0	0	0	0	0	4	28	59	86	103	108	97	73	47	21	2	0	0	0	0	0	0	629.	24
16	0	0	0	0	0	0	0	0%	3	14	21	26	23	35	37	21	15	1	0	0	0	0	0	0	197.	24
17	0	0	0	0	0	0	0	3%	27	55	74	96	113	100	79	51	21	2	0	0	0	0	0	0	621.	24
18	0	0	0	0	0	0	0	4	29	60	87	97	108	101	79	50	21	2	0	0	0	0	0	0	638.	24
19	0	0	0	0	0	0	0	2%	18	32	35	35	48	77	76	47	18	1	0	0	0	0	0	0	390.	24
20	0	0	0	0	0	0	0	2%	14	39	20	18	26	31	31	27	14	1%	0	0	0	0	0	0	223.	24
21	0	0	0	0	0	0	0	3%	26	58	88	108	112	103	81	45	17	1%	0	0	0	0	0	0	642.	24
22	0	0	0	0	0	0	0	2%	24	58	92	101	98	93	80	51	21	2	0	0	0	0	0	0	622.	24
23	0	0	0	0	0	0	0	2%	21	39	53	56	53	51	38	30	15	1%	0	0	0	0	0	0	359.	24
24	0	0	0	0	0	0	0	2	22	54	79%	43	75	87	70	44	19	1	0	0	0	0	0	0	496.	24
25	0	0	0	0	0	0	0	2%	24	56	80	100	107	96	75	46	19	1	0	0	0	0	0	0	608.	24
26	0	0	0	0	0	0	0	2	23	53	81	100	105	97	75	45	17	1	0	0	0	0	0	0	600.	24
27	0	0	0	0	0	0	0	0%	5	9	11	55	43	55	38	18	15	1%	0	0	0	0	0	0	251.	24
28	0	0	0	0	0	0	0	0%	18	44	72	89	100	98	74	48	20	2	0	0	0	0	0	0	565.	24
29	0	0	0	0	0	0	0	1%	13	43	39	49	55	36	24	14	4	0%	0	0	0	0	0	0	278.	24
30	0	0	0	0	0	0	0	1	3	8	10	10%	10	8	13	10	4	0%	0	0	0	0	0	0	78.	24
AV	0	0	0	0	0	0	0	4	22	46	68	80	86	80	64	41	18	2	0	0	0	0	0	0	510.	
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 77.

ATLANTA (GA TECH) YEAR 1981 MONTH 11

AVAILABLE SUNSHINE %

D A Y	HOUR																								AVG	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	0	0	0	91	100	100	100	97	97	25	0	0	0	0	0	0	0	57. 24	
2	0	0	0	0	0	0	0	5	81	93	96	97	100	94	73	28	5	0	0	0	0	0	0	0	81. 24	
3	0	0	0	0	0	0	0	10	93	79	97	2	0	0	0	0	0	0	0	0	0	0	0	0	27. 24	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	23	0	0	0	0	0	0	7. 24	
5	0	0	0	0	0	0	0	5	0	0	0	7	81	71	82	55	37	11	0	0	0	0	0	0	33. 24	
6	0	0	0	0	0	0	0	50	100	100	92	96	100	100	100	100	100	82	0	0	0	0	0	0	93. 24	
7	0	0	0	0	0	0	0	56	100	100	100	100	100	100	100	100	100	83	0	0	0	0	0	0	95. 24	
8	0	0	0	0	0	0	0	80	100	100	100	100	100	100	100	100	100	77	0	0	0	0	0	0	95. 24	
9	0	0	0	0	0	0	0	2	0	0	36	45	23	25	2	1	1	0	0	0	0	0	0	0	13. 24	
10	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0. 24	
11	0	0	0	0	0	0	0	54	100	100	100	100	100	100	100	100	100	80	0	0	0	0	0	0	94. 24	
12	0	0	0	0	0	0	0	60	100	100	100	100	100	100	100	100	100	33	0	0	0	0	0	0	93. 24	
13	0	0	0	0	0	0	0	48	57	95	100	100	100	97	33	0	0	0	0	0	0	0	0	0	60. 24	
14	0	0	0	0	0	0	0	41	100	100	100	100	100	100	100	100	100	46	0	0	0	0	0	0	93. 24	
15	0	0	0	0	0	0	0	67	100	100	100	100	100	100	100	100	72	0	0	0	0	0	0	0	90. 24	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	3	0	0	0	0	0	0	0	1. 24	
17	0	0	0	0	0	0	0	0	82	84	56	75	97	92	96	100	100	64	0	0	0	0	0	0	80. 24	
18	0	0	0	0	0	0	0	69	100	100	100	100	100	100	100	100	100	74	0	0	0	0	0	0	96. 24	
19	0	0	0	0	0	0	0	0	11	1	0	0	3	30	80	71	38	0	0	0	0	0	0	0	23. 24	
20	0	0	0	0	0	0	0	20	3	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3. 24	
21	0	0	0	0	0	0	0	62	100	100	100	100	100	100	100	56	37	43	0	0	0	0	0	0	84. 24	
22	0	0	0	0	0	0	0	63	68	100	100	92	96	92	100	100	64	0	0	0	0	0	0	0	91. 24	
23	0	0	0	0	0	0	0	49	100	76	29	0	0	0	4	22	13	0	0	0	0	0	0	0	27. 24	
24	0	0	0	0	0	0	0	0	38	99	88	6	38	68	59	63	60	61	0	0	0	0	0	0	54. 24	
25	0	0	0	0	0	0	0	69	100	100	100	100	100	100	100	100	100	68	0	0	0	0	0	0	97. 24	
26	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	16	0	0	0	0	0	0	0	85. 24	
27	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0. 24	
28	0	0	0	0	0	0	0	0	0	18	99	100	100	100	100	100	95	54	0	0	0	0	0	0	74. 24	
29	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2. 24	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 24	
AV	0	0	0	0	0	0	0	28	54	59	63	57	61	61	61	57	49	28	0	0	0	0	0	0	54.	
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 78.

ATLANTA (GA TECH) YEAR 1981 MONTH 12

DIRECT NORMAL KJ/M2

DAY	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	1	2	2	4	2	2	3	5	2	2	1	0	0	0	0	0	0	29.	24	
2	0	0	0	0	0	0	0	411%	2329	3003	3281	3403	3460	3433	3257	2880	2082	410%	0	0	0	0	0	0	0	27948.	24
3	0	0	0	0	0	0	0	354%	2201	2239	3000	2298	2704	2048	1999	1689	1593	426%	0	0	0	0	0	0	0	20531.	24
4	0	0	0	0	0	0	0	375%	2169	2954	1581	292	1654	160	42	123	601	95	0	0	0	0	0	0	0	10045.	24
5	0	0	0	0	0	0	0	313	2184	2941	3316	3504	3572	3551	3410	3101	2345	440%	0	0	0	0	0	0	0	28675.	24
6	0	0	0	0	0	0	0	38	2	9	139	126	8	2	2	2	2	1	0	0	0	0	0	0	0	333.	24
7	0	0	0	0	0	0	0	270%	2112	2820	2797	3257	3256	3281	3103	2748	1771	185	0	0	0	0	0	0	0	25599.	24
8	0	0	0	0	0	0	0	108	1571	2171	2960	3336	3424	3438	3402	3067	2348	479%	0	0	0	0	0	0	0	26303.	24
9	0	0	0	0	0	0	0	178	606	2391	1781	3380	3317	3284	3172	2814	1935	286	0	0	0	0	0	0	0	23143.	24
10	0	0	0	0	0	0	0	150	1963	2643	2598	3257	3338	3407	3244	2789	2095	284	0	0	0	0	0	0	0	25768.	24
11	0	0	0	0	0	0	0	65	658	950	484	1030	2582	3301	3158	2815	1852	1	0	0	0	0	0	0	0	16907.	24
12	0	0	0	0	0	0	0	1	2	2	2	251	1291	36	59	9	5	1	0	0	0	0	0	0	0	1661.	24
13	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	23.	24
14	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	23.	24
15	0	0	0	0	0	0	0	1	2	2	2	2	2	2	3	3	3	2	0	0	0	0	0	0	0	25.	24
16	0	0	0	0	0	0	0	51	1804	2751	3151	3343	3384	3334	3197	2887	2171	423%	0	0	0	0	0	0	0	26497.	24
17	0	0	0	0	0	0	0	2	205	27	3	3	3	3	3	3	3	1	0	0	0	0	0	0	0	256.	24
18	0	0	0	0	0	0	0	1	707	1762	2391	3174	3247	3174	33102	2837	2039	354%	0	0	0	0	0	0	0	22790.	24
19	0	0	0	0	0	0	0	43	1866	2827	3214	3373	3446	3441	3334	3033	2304	531%	0	0	0	0	0	0	0	27413.	24
20	0	0	0	0	0	0	0	67	2175	3067	3401	3556	3603	3577	3348	3077	2319	525%	0	0	0	0	0	0	0	28713.	24
21	0	0	0	0	0	0	0	39	118	3	73	4	3	3	3	3	3	1	0	0	0	0	0	0	0	252.	24
22	0	0	0	0	0	0	0	1	3	3	3	3	1363	2858	2418	324	3	2	0	0	0	0	0	0	0	6980.	24
23	0	0	0	0	0	0	0	1	3	3	3	3	3	9999	9999	9999	9999	1*	0	0	0	0	0	0	0	99999.	19
24	0	0	0	0	0	0	0	1	2	2	2	2	2	3	3	3	3	1	0	0	0	0	0	0	0	25.	24
25	0	0	0	0	0	0	0	1	3	2	2	2	2	2	3	2	2	1	0	0	0	0	0	0	0	25.	24
26	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	24.	24
27	0	0	0	0	0	0	0	1	2	2	2	2	2	16	428	542	967%	2	0	0	0	0	0	0	0	1969.	24
28	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	0	0	28.	24
29	0	0	0	0	0	0	0	1	3	1409	2814	3120	3247	3310	2339	1851	1077	444%	0	0	0	0	0	0	0	19814.	24
30	0	0	0	0	0	0	0	5	267	796	879	1541	738	1079	1266	1452	835	57	0	0	0	0	0	0	0	8916.	24
31	0	0	0	0	0	0	0	1	3	2	3	2	2	3%	3%	3	3	2	0	0	0	0	0	0	0	25.	24
AV	0	0	0	0	0	0	0	80	741	1122	1223	1364	1538	1559	1477	1269	946	165	0	0	0	0	0	0	0	11484.	\$
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	739	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 79.

ATLANTA (GA TECH) YEAR 1981 MONTH 12																											
DIRECT (RG630) KJ/M2																											
D A Y	HOUR																								T O T A L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	2	3	3	4	3	3	3	7	4	5	2	0	0	0	0	0	0	0	37.	24
2	0	0	0	0	0	0	0	354%	1710	2019	2137	2194	2219	2213	2147	1982	1591	376%	0	0	0	0	0	0	0	18943.	24
3	0	0	0	0	0	0	0	267%	1534	1421	1842	1382	1620	1238	1254	1145	1168	386%	0	0	0	0	0	0	0	13256.	24
4	0	0	0	0	0	0	0	314%	1636	2008	1033	187	1065	101	27	90	488	91	0	0	0	0	0	0	0	7040.	24
5	0	0	0	0	0	0	0	838%	1675	2025	2174	2256	2288	2214	2186	2105	1738	397%	0	0	0	0	0	0	0	19895.	24
6	0	0	0	0	0	0	0	31	3	5	68	61	5	3	3	3	2	0	0	0	0	0	0	0	0	188.	24
7	0	0	0	0	0	0	0	243%	1582	1910	1811	2079	2050	2069	2003	1865	1375	179%	0	0	0	0	0	0	0	17166.	24
8	0	0	0	0	0	0	0	103	1250	1549	1960	2145	2196	2236	2243	2111	1785	434%	0	0	0	0	0	0	0	18012.	24
9	0	0	0	0	0	0	0	155	450	1628	1094	2109	2089	2079	2072	1977	1494	257	0	0	0	0	0	0	0	15406.	24
10	0	0	0	0	0	0	0	139	1559	1876	1755	2147	2182	2231	2167	1961	1645	261	0	0	0	0	0	0	0	17923.	24
11	0	0	0	0	0	0	0	80	495	665	311	656	1661	2150	2109	1967	1424	2	0	0	0	0	0	0	0	11499.	24
12	0	0	0	0	0	0	0	1	3	3	3	155	844	23	40	9	5	2	0	0	0	0	0	0	0	1089.	24
13	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	2	0	0	0	0	0	0	0	0	31.	24
14	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	2	0	0	0	0	0	0	0	0	31.	24
15	0	0	0	0	0	0	0	1	3	3	3	3	3	3	4	4	2	0	0	0	0	0	0	0	0	36.	24
16	0	0	0	0	0	0	0	48	1435	1932	2100	2171	2182	1784*	1799*	1862	1593	374%	0	0	0	0	0	0	0	18139.	\$22
17	0	0	0	0	0	0	0	1	4\$	6	4	4	4	4	4	4	18%	2	0	0	0	0	0	0	0	55.	24
18	0	0	0	0	0	0	0	1	7*	11*	27*	9999*	1361*	1715*	2133	2038	1639	330	0	0	0	0	0	0	0	99999.	*18
19	0	0	0	0	0	0	0	41	1449	1929	2133	2190	2212	2200	2174	2070	1743	470%	0	0	0	0	0	0	0	18609.	24
20	0	0	0	0	0	0	0	61	1707	2165	2286	2337	2352	2344	2235	2147	1784	478%	0	0	0	0	0	0	0	19894.	24
21	0	0	0	0	0	0	0	2	87	3	46	4	4	3	3	3	2	0	0	0	0	0	0	0	0	162.	24
22	0	0	0	0	0	0	0	1	3	3	3	3	861	1808	1539	221	4	2	0	0	0	0	0	0	0	4450.	24
23	0	0	0	0	0	0	0	2	4	4	4	4	4	9999*	9999*	9999*	9999*	2*	0	0	0	0	0	0	0	99999.	*19
24	0	0	0	0	0	0	0	1	3	3	3	4\$	4	4	4	4	2	0	0	0	0	0	0	0	0	35.	24
25	0	0	0	0	0	0	0	3	10	16	11	13	31	51	55%	72%	69%	33%	0	0	0	0	0	0	0	363.	24
26	0	0	0	0	0	0	0	3	8	6	22	42	36	40	45	45	37	17	0	0	0	0	0	0	0	300.	24
27	0	0	0	0	0	0	0	2	3	8	14	23	32	42	258	355	661	11%	0	0	0	0	0	0	0	1409.	24
28	0	0	0	0	0	0	0	8	16	37	37	32	35	13	13	18	11	11	0	0	0	0	0	0	0	230.	24
29	0	0	0	0	0	0	0	1	7	940\$	1873	2008	2071	2110	1516	1253	824	399%	0	0	0	0	0	0	0	13000.	24
30	0	0	0	0	0	0	0	10	242	562	593	1006	490	713	858\$	1003	650	54	0	0	0	0	0	0	0	6180.	24
31	0	0	0	0	0	0	0	2	4	5	16	12	11	3	3	10	8	2	0	0	0	0	0	0	0	77.	24
AV	0	0	0	0	0	0	0	87	563\$	758\$	778\$	841\$	952\$	925\$	935\$	878\$	726\$	153\$	0	0	0	0	0	0	0	7596.	\$
HR	31	31	31	31	31	31	31	31	31	30	30	30	30	30	28	29	30	30	30	31	31	31	31	31	31	731	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 80.

		ATLANTA (GA TECH)										YEAR 1981										MONTH 12						
		GLOBAL HORIZ.												KJ/M2														
D	A	HOUR																								TOTL	HR	
Y		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	----	----	
1	0	0	0	0	0	0	0	0	6	31	43	208	565	730	767	897	568	204	29	0	0	0	0	0	0	0	4049.	24
2	0	0	0	0	0	0	0	0	46	506	1116	1662	1976	2099	1998	1656	1097	475	32	0	0	0	0	0	0	0	12663.	24
3	0	0	0	0	0	0	0	0	37	489	935	1614	1742	2376	1718	1757	995	446	43	0	0	0	0	0	0	0	12153.	24
4	0	0	0	0	0	0	0	0	35	470	1103	1238	1028	1747	967	714	475	329	26	0	0	0	0	0	0	0	8132.	24
5	0	0	0	0	0	0	0	0	30	467	1097	1666	2004	2131	2034	1696	1135	485	32	0	0	0	0	0	0	0	12776.	24
6	0	0	0	0	0	0	0	0	20	213	541	947	1087	947	596	384	182	42	14	0	0	0	0	0	0	0	4974.	24
7	0	0	0	0	0	0	0	0	27	431	1020	1476	1872	1971	1902	1656	1106	484	28	0	0	0	0	0	0	0	11974.	24
8	0	0	0	0	0	0	0	0	21	381	926	1539	1918	2049	1962	1665	1105	468	30	0	0	0	0	0	0	0	12062.	24
9	0	0	0	0	0	0	0	0	35	340	968	1459	1962	2057	1961	1637	1083	447	27	0	0	0	0	0	0	0	11976.	24
10	0	0	0	0	0	0	0	0	16	405	1024	1442	1921	2045	1976	1642	1068	459	25	0	0	0	0	0	0	0	12024.	24
11	0	0	0	0	0	0	0	0	23	356	807	957	1353	1868	1927	1598	1063	431	14	0	0	0	0	0	0	0	10399.	24
12	0	0	0	0	0	0	0	0	5	89	323	495	932	1299	857	652	472	166	9	0	0	0	0	0	0	0	5119.	24
13	0	0	0	0	0	0	0	0	14	111	135	342	485	367	248	106	97	21	8	0	0	0	0	0	0	0	1933.	24
14	0	0	0	0	0	0	0	0	5	13	41	109	187	157	194	181	90	19	6	0	0	0	0	0	0	0	1003.	24
15	0	0	0	0	0	0	0	0	5	27	125	95	155	172	124	90	95	93	6	0	0	0	0	0	0	0	987.	24
16	0	0	0	0	0	0	0	0	12	362	967	1517	1866	1987	1903	1590	1058	454	30	0	0	0	0	0	0	0	11745.	24
17	0	0	0	0	0	0	0	0	17	162	308	170	285	254	161	92	75	34	6	0	0	0	0	0	0	0	1565.	24
18	0	0	0	0	0	0	0	0	6	324	889	1453	1957	2043	1836	1629	1102	480	35	0	0	0	0	0	0	0	11753.	24
19	0	0	0	0	0	0	0	0	11	373	995	1564	1922	2058	1988	1677	1135	501	42	0	0	0	0	0	0	0	12268.	24
20	0	0	0	0	0	0	0	0	6	360	992	1566	1936	2070	2003	1665	1124	486	36	0	0	0	0	0	0	0	12243.	24
21	0	0	0	0	0	0	0	0	15	183	306	673	709	496	325	314	162	71	15	0	0	0	0	0	0	0	3269.	24
22	0	0	0	0	0	0	0	0	4	30	211	343	517	1688	1795	1415	602	49	6	0	0	0	0	0	0	0	6660.	24
23	0	0	0	0	0	0	0	0	4	45	71	154	303	233	9999	9999	9999	9999	5	0	0	0	0	0	0	0	9999.	19
24	0	0	0	0	0	0	0	0	7	197	268	575	399	223	340	184	73	50	7	0	0	0	0	0	0	0	2322.	24
25	0	0	0	0	0	0	0	0	4	26	57	95	173	143	308	269	194	58	7	0	0	0	0	0	0	0	1333.	24
26	0	0	0	0	0	0	0	0	4	35	127	257	321	294	312	223	107	40	7	0	0	0	0	0	0	0	1727.	24
27	0	0	0	0	0	0	0	0	5	129	139	221	573	321	718	890	568	395	19	0	0	0	0	0	0	0	3977.	24
28	0	0	0	0	0	0	0	0	4	63	182	277	347	270	126	388	145	45	11	0	0	0	0	0	0	0	1858.	24
29	0	0	0	0	0	0	0	0	6	127	783	1453	1836	1990	1932	1409	1017	525	75	0	0	0	0	0	0	0	11152.	24
30	0	0	0	0	0	0	0	0	12	311	851	1139	1521	1347	1311	1208	1104	492	42	0	0	0	0	0	0	0	9337.	24
31	0	0	0	0	0	0	0	0	3	17	80	41	40	38	258	298	263	128	19	0	0	0	0	0	0	0	1185.	24
AV	0	0	0	0	0	0	0	0	14	228	562	863	1093	1209	1145	986	645	280	23	0	0	0	0	0	0	0	7049.	8
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	739	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 81.

		ATLANTA (GA TECH)										YEAR 1981		MONTH 12		GLOBAL (RG630) KJ/M2								TOTL	HR			
D A Y	HOUR																								TOTL	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	0	8	32	34	112	315	421	477	565	373	151	31	0	0	0	0	0	0	0	2518.	24	
2	0	0	0	0	0	0	0	41	358	733	1043	1230	1291	1218	1019	687	318	27	0	0	0	0	0	0	0	0	7965.	24
3	0	0	0	0	0	0	0	37	356	620	1025	1086	1461	1032	1086	629	301	42	0	0	0	0	0	0	0	0	7677.	24
4	0	0	0	0	0	0	0	40	344	731	768	623	1077	587	437	306	232	29	0	0	0	0	0	0	0	0	5172.	24
5	0	0	0	0	0	0	0	43	360%	748	1071	1271	1335	1262	1064	730	335	32	0	0	0	0	0	0	0	0	8249.	24
6	0	0	0	0	0	0	0	31%	159	354	596	675	577	365	241	129	51	20	0	0	0	0	0	0	0	0	3197.	24
7	0	0	0	0	0	0	0	31	317	678	932	1164	1207	1153	1017	694	329	21	0	0	0	0	0	0	0	0	7542.	24
8	0	0	0	0	0	0	0	22	275	609	967	1188	1262	1206	1037	703	317	25	0	0	0	0	0	0	0	0	7610.	24
9	0	0	0	0	0	0	0	43	251	655	928	1235	1292	1228	1042	710	317	29	0	0	0	0	0	0	0	0	7729.	24
10	0	0	0	0	0	0	0	28	322%	711	944	1229	1289	1242	1048	705	330	28	0	0	0	0	0	0	0	0	7876.	24
11	0	0	0	0	0	0	0	31%	263	539	603	841	1156	1192	1006	685	297	17	0	0	0	0	0	0	0	0	6831.	24
12	0	0	0	0	0	0	0	17	84	213	303	564	804	396	407	301	133	16	0	0	0	0	0	0	0	0	3236.	24
13	0	0	0	0	0	0	0	27%	103	110	222	297	229	163	88	85	45	17	0	0	0	0	0	0	0	0	1386.	24
14	0	0	0	0	0	0	0	3	13	29	61	104	90	105	103	65	38	13	0	0	0	0	0	0	0	0	625.	24
15	0	0	0	0	0	0	0	7	32	89	79	123	132	103	78	76	75	10	0	0	0	0	0	0	0	0	804.	24
16	0	0	0	0	0	0	0	20	295%	676	986	1188	1251	1188	1003	688	318	29	0	0	0	0	0	0	0	0	7652.	24
17	0	0	0	0	0	0	0	27%	132	215	114	176	156	104	67	62	39	12	0	0	0	0	0	0	0	0	1104.	24
18	0	0	0	0	0	0	0	15	254%	614	953	1261	1309	1182%	1054	738	354	41	0	0	0	0	0	0	0	0	7775.	24
19	0	0	0	0	0	0	0	25%	316%	716%	1060	1262	1335	1276	1088	758	363	44	0	0	0	0	0	0	0	0	8243.	24
20	0	0	0	0	0	0	0	20	315%	721%	1064	1271	1347	1289	1087	754	348	32	0	0	0	0	0	0	0	0	8248.	24
21	0	0	0	0	0	0	0	24%	153	211	422	435	307	207	205	127	83%	34%	0	0	0	0	0	0	0	0	2208.	24
22	0	0	0	0	0	0	0	16%	64%	156	226	321	1034	1077	839	357	37	3	0	0	0	0	0	0	0	0	4129.	24
23	0	0	0	0	0	0	0	6	50	50	91	183	152	9999%	9999%	9999%	9999%	12%	0	0	0	0	0	0	0	0	99999.	M19
24	0	0	0	0	0	0	0	17	165%	188	363	260%	156	222	143%	74%	56	14	0	0	0	0	0	0	0	0	1659.	24
25	0	0	0	0	0	0	0	6	37	55	71	110	98	193	180	151%	84%	26	0	0	0	0	0	0	0	0	1010.	24
26	0	0	0	0	0	0	0	13%	62%	116%	189	220	200	210	160	97	61%	20	0	0	0	0	0	0	0	0	1350.	24
27	0	0	0	0	0	0	0	14	115	109	158	358	218	451	558	344	267	21	0	0	0	0	0	0	0	0	2615.	24
28	0	0	0	0	0	0	0	12	71	140	188	223	178	74	215	96	38	18	0	0	0	0	0	0	0	0	1250.	24
29	0	0	0	0	0	0	0	13	103	541	948	1156	1238	1202	875	641	355	61	0	0	0	0	0	0	0	0	7134.	24
30	0	0	0	0	0	0	0	18	231	564	727	958	839	821	766%	711	343	42	0	0	0	0	0	0	0	0	6021.	24
31	0	0	0	0	0	0	0	1	20	50	26	23	22	139	170	181	100	36	0	0	0	0	0	0	0	0	750.	24
AV	0	0	0	0	0	0	0	21	182	386	556	689	757	712%	622%	421%	204%	26%	0	0	0	0	0	0	0	0	4577.	%
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	739	

88

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 82.

ATLANTA (GA TECH) YEAR 1981 MONTH 12

DIFFUSE HORIZ. KJ/M2

D A Y	HOUR												14	15	16	17	18	19	20	21	22	23	24	TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12														13
1	0	0	0	0	0	0	0	9	57	64	218	566	709	752	872	554	200	27	0	0	0	0	0	4027.	24	
2	0	0	0	0	0	0	0	12	82	130	163	183	187	183	172	156	120	11	0	0	0	0	0	1400.	24	
3	0	0	0	0	0	0	0	10	104	209	238	526	845	597	822	478	144	22	0	0	0	0	0	3995.	24	
4	0	0	0	0	0	0	0	14	94	151	508	831	800	841	664	421	221	19	0	0	0	0	0	4564.	24	
5	0	0	0	0	0	0	0	7	85	146	170	173	173	166	154	128	76	7	0	0	0	0	0	1284.	24	
6	0	0	0	0	0	0	0	8	178	488	820	954	887	567	364	169	34	10	0	0	0	0	0	4481.	24	
7	0	0	0	0	0	0	0	6	72	127	223	194	208	200	273	236%	188	24	0	0	0	0	0	1752.	24	
8	0	0	0	0	0	0	0	14	129	256	233	203	201	185	154	125	78	9	0	0	0	0	0	1587.	24	
9	0	0	0	0	0	0	0	19	216	192	636	218	257	251	217	176	104	10	0	0	0	0	0	2296.	24	
10	0	0	0	0	0	0	0	5	86	205	302	245	237	203	184	157	89	6	0	0	0	0	0	1720.	24	
11	0	0	0	0	0	0	0	11	206	489	676	756	437	207	179	149	88	9	0	0	0	0	0	3206.	24	
12	0	0	0	0	0	0	0	2	56	292	458	746%	568%	590%	582%	439	170	6	0	0	0	0	0	3919.	24	
13	0	0	0	0	0	0	0	8	90	114	312	452	342	228	92	84	13	2	0	0	0	0	0	1736.	24	
14	0	0	0	0	0	0	0	2	17	56	127	203	169	202	193	103	27	2	0	0	0	0	0	1101.	24	
15	0	0	0	0	0	0	0	3	43	137	95	159	166	112	80	84	83	2	0	0	0	0	0	965.	24	
16	0	0	0	0	0	0	0	5	85	146	170	175	176	178	162	125	68	6	0	0	0	0	0	1295.	24	
17	0	0	0	0	0	0	0	11	118	276	157	270	242	154	87	71	32	2	0	0	0	0	0	1421.	24	
18	0	0	0	0	0	0	0	2	188%	319%	390	332	300	268%	236	177	107	8	0	0	0	0	0	2327.	24	
19	0	0	0	0	0	0	0	2	76	151	187	213	215	206	178	144	84	7	0	0	0	0	0	1463.	24	
20	0	0	0	0	0	0	0	2	49	100	129	149	153	152	159	119	66	4	0	0	0	0	0	1082.	24	
21	0	0	0	0	0	0	0	6	137	270	588	659	461	301	289	146	59	10	0	0	0	0	0	2925.	24	
22	0	0	0	0	0	0	0	2	39	211	332	492	902	306	303	476	57	3	0	0	0	0	0	3122.	24	
23	0	0	0	0	0	0	0	2	62	103	170	312	246	99999	99999	99999	99999	2*	0	0	0	0	0	99999.	19	
24	0	0	0	0	0	0	0	5	181	250	545	379%	213	324	172	76	55	2	0	0	0	0	0	2202.	24	
25	0	0	0	0	0	0	0	2	35	70	105	183	149	307	275	206	67	5	0	0	0	0	0	1404.	24	
26	0	0	0	0	0	0	0	2	52	150	258	319	293	310	222	109	44	3	0	0	0	0	0	1762.	24	
27	0	0	0	0	0	0	0	6	141	154	235	568	324	687	659	370	166%	17	0	0	0	0	0	3327.	24	
28	0	0	0	0	0	0	0	8	98	208%	319	353	278	141	391	157	57	13	0	0	0	0	0	2023.	24	
29	0	0	0	0	0	0	0	3	109	285	266	265	255	225	318	372	322	41	0	0	0	0	0	2460.	24	
30	0	0	0	0	0	0	0	9	252	566	727	725	916	731	651%	570	328	34	0	0	0	0	0	5510.	24	
31	0	0	0	0	0	0	0	1	28	37%	54%	52	48	114%	182%	185	103	22	0	0	0	0	0	827.	24	
AV	0	0	0	0	0	0	0	6	102	205	317	382	366	323\$	310\$	225\$	108\$	11\$	0	0	0	0	0	2357.	\$	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	739	

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 FLAGS:

- % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 83.

		ATLANTA (GA TECH)												YEAR 1981												MONTH 12											
		LAT. TILTED KJ/M2																																			
D A Y	1	2	3	4	5	6	7	8	9	10	11	12	HOUR												24	TOTL	HR										
													13	14	15	16	17	18	19	20	21	22	23														
1	0	0	0	0	0	0	0	33	55	59	187	491	642	721	864	543	186	39	0	0	0	0	0	0	0	0	0	3820.	24								
2	0	0	0	0	0	0	0	158	1215	2184	2903	3344	3517	3358	2876	2102	1130	131	0	0	0	0	0	0	0	0	0	22900.	24								
3	0	0	0	0	0	0	0	137	1185	1796	2818	2845	3532	2611	2658	1627	950	142	0	0	0	0	0	0	0	0	0	20301.	24								
4	0	0	0	0	0	0	0	146	1156	2153	1976	1205	2550	1067	782	522	561	57	0	0	0	0	0	0	0	0	0	12175.	24								
5	0	0	0	0	0	0	0	124	1160	2155	2942	3428	3611	3461	2988	2226	1218	136	0	0	0	0	0	0	0	0	0	23449.	24								
6	0	0	0	0	0	0	0	34	194	541	1046	1179	901	549	343	166	57	28	0	0	0	0	0	0	0	0	0	5039.	24								
7	0	0	0	0	0	0	0	107	1098	2032	2634	3210	3343	3241	2848	2088	1055	81	0	0	0	0	0	0	0	0	0	21735.	24								
8	0	0	0	0	0	0	0	63	913	1776	2730	3295	3486	3366	2966	2195	1219	140X	0	0	0	0	0	0	0	0	0	22150.	24								
9	0	0	0	0	0	0	0	95	595	1876	2369	3386	3497	3363	2908	2123	1086	100	0	0	0	0	0	0	0	0	0	21397.	24								
10	0	0	0	0	0	0	0	67	1044	2021	2555	3309	3495	3392	2918	2103	1145	101	0	0	0	0	0	0	0	0	0	22152.	24								
11	0	0	0	0	0	0	0	55	621	1271	1251	1958	3100	3307	2845	2096	1056	29	0	0	0	0	0	0	0	0	0	17588.	24								
12	0	0	0	0	0	0	0	25	85	267	453	1193	2049	812X	827X	529	227X	29	0	0	0	0	0	0	0	0	0	6495.	24								
13	0	0	0	0	0	0	0	25	100	125	295	413	314	215	93	88	53	28	0	0	0	0	0	0	0	0	0	1750.	24								
14	0	0	0	0	0	0	0	23	53	53	87	152	123	155	143	69	54	29	0	0	0	0	0	0	0	0	0	942.	24								
15	0	0	0	0	0	0	0	23	54	102	82	140	148	101	73	83	88	29	0	0	0	0	0	0	0	0	0	924.	24								
16	0	0	0	0	0	0	0	35	956	1982	2756	3221	3390	3274	2849	2117	1173	138	0	0	0	0	0	0	0	0	0	21890.	24								
17	0	0	0	0	0	0	0	26	253	322	155	249	223	140	78	69	60	29	0	0	0	0	0	0	0	0	0	1605.	24								
18	0	0	0	0	0	0	0	21	613	1664	2517	3355	3515	3206	2897	2178	1162	132	0	0	0	0	0	0	0	0	0	21260.	24								
19	0	0	0	0	0	0	0	29	981	2035	2843	3338	3546	3432	2995	2249	1250	173X	0	0	0	0	0	0	0	0	0	22872.	24								
20	0	0	0	0	0	0	0	30	1067	2112	2903	3406	3601	3481	2995	2260	1258	178	0	0	0	0	0	0	0	0	0	23288.	24								
21	0	0	0	0	0	0	0	29	240	266	703	664	458	289	298	151	66	32	0	0	0	0	0	0	0	0	0	3196.	24								
22	0	0	0	0	0	0	0	19	56	200	305	473	2478	3083	2480	786	72	32	0	0	0	0	0	0	0	0	0	9964.	24								
23	0	0	0	0	0	0	0	20	59	75	136	277	216	9999W	9999W	9999W	9999W	16*	0	0	0	0	0	0	0	0	0	99999.	19								
24	0	0	0	0	0	0	0	14	119\$	224	568	383\$	198	292	169	84	53	24	0	0	0	0	0	0	0	0	0	2108.	24								
25	0	0	0	0	0	0	0	14	43	47	79	140	124	268	230	180	84	25	0	0	0	0	0	0	0	0	0	1214.	24								
26	0	0	0	0	0	0	0	14	53	121	214	276	254	271	193	92	48	25	0	0	0	0	0	0	0	0	0	1560.	24								
27	0	0	0	0	0	0	0	14	111	120	193	515	279	772	1119	908X	796	29	0	0	0	0	0	0	0	0	0	4858.	24								
28	0	0	0	0	0	0	0	13	77	179	255	301	232	113	330	124	50	25	0	0	0	0	0	0	0	0	0	1700.	24								
29	0	0	0	0	0	0	0	13	100	1491	2634	3175	3406	3330	2459	1773	922	210	0	0	0	0	0	0	0	0	0	19513.	24								
30	0	0	0	0	0	0	0	17	428	1229	1584	2341	1900	1977	1850\$	1723	834	77	0	0	0	0	0	0	0	0	0	13960.	24								
31	0	0	0	0	0	0	0	12	40	77	51	48	52	226	253	225	120	30	0	0	0	0	0	0	0	0	0	1133.	24								
AV	0	0	0	0	0	0	0	46	475	985	1362	1668	1877	1796\$	1577\$	1115\$	601\$	75\$	0	0	0	0	0	0	0	0	0	11577.	\$								
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	31	31	739									

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

06

Table 84.

T6

		ATLANTA (GA TECH)																								YEAR 1981		MONTH 12	
		INFRARED 10 KJ/M2																											
D	A	HOUR																								TOTL	HR		
Y		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	-----	---		
1	134%	134%	133%	133%	132%	131%	133%	134%	136%	134%	136%	132%	129	132%	123%	136%	129%	127	131	130	127	125	124	122	3140.	24			
2	121	119	113	116	102	96	86	99	111	113	109	109	93%	108	108	113	111	100	98	98	97	107	103	95	2534.	24			
3	101	92	91	91	91	91	92	95	109	110	110	112	120	115	119	121	117%	117	118	108	103%	104	115	123	2567.	24			
4	123	124	109	106	99	95	95	98	110	111	109	118	114%	122	122	121	110	103	110	114	98	91	90	89	2581.	24			
5	88	88	87	88	86	85	85	88	100	104	100	100	98	99	102	101	92	90	89	89	90	93	91	2233.	24				
6	92	100	104	99	102	107	107	103	105	111	113	116	118	122	123	124	125	121	121	114	102	97	96	98	2620.	24			
7	97	95	93	94	93	95	96	100	113	117	114	117	119	119	122	125	130	127	138	128	113	129	126	132	2736.	24			
8	128	123	123	112	110	126	117	112	123	125	120	116	114	114	111	114	113	102%	98%	96%	94%	94	92	92	2668.	24			
9	91	90	89	88	88	88	88	91	99	104	105	99	99	98	97	100	98	89	86	84	83	82	82	81%	2200.	24			
10	79%	79%	78%	78%	78%	79	78%	81	95	100	97	95	94	92	92	95	93	85	82%	82	81	79	79	78	2049.	24			
11	79	79	86	87	84	91	92	89	97	103	105	106	99	83%	100	102	102	104	95	92	91	93	104	103	2267.	24			
12	103	97	98	102	103	105	111	111	116	116	111	106	103	105	107	105	101	95	93	93	94	107	115	106	2504.	24			
13	116	118	117	116	120	122	121	122	123	123	125	125	125	125	124	125	124	123	123	122	122	123	124	125	2932.	24			
14	125	126%	126	126%	126%	124%	127%	126%	127%	128%	126%	127%	128%	127%	128%	129%	128%	127%	126%	120%	127%	127%	127%	127%	3029.	24			
15	127%	127%	127%	127%	126%	126%	127%	127%	129%	128%	128%	130%	129%	126%	125%	124%	123%	115%	96	105	107	100	95	93	2865.	24			
16	94	88	88	87	86	86	86	87	100	104	101	102	85%	87%	88%	90%	107%	100%	96	96	95	96	96	96	2242.	24			
17	94	94	97	99	103	99	104	111%	115%	129%	129%	130%	132	130%	130%	130	130	127	126	126	118	122	119	112	2805.	24			
18	114	112	111	110	107	103	94	88	95	96	93	91	89	87%	85	89	87	79	75	77	79	75	74	73	2184.	24			
19	73	73	74	73	73	73	73	74	87	91	88	69%	87	86	86	89	88	80%	77%	76%	75%	75%	74%	73%	1887.	24			
20	73%	72%	71%	71%	71	71	71	72	88	93	90	89	89	87%	87	91	91	83%	80%	80%	80%	80%	80%	81	1938.	24			
21	82	79	79	80	82	84	97	104	111%	116%	117%	118%	120%	121%	121%	122%	124%	122%	119%	119%	120%	120%	120%	120	2597.	24			
22	120%	123%	125%	126%	127%	126%	127%	127%	132%	132%	132%	133%	128	125	129	140	143	141	140	136	135	140	136	128	3149.	24			
23	140	143	144	142	144	145	146	147	150	144	141	142%	142%	OM	OM	OM	OM	135*	132	128	128	126	124	121	3345.	\$19			
24	119	119	118	114	113	113	118	119	120	122	123	125%	126%	127	127	128	127	126	126	126	126	125	126	126	2940.	24			
25	126	127	126	126	127	127	128	127	129	129	128	128	128	128	129	129	128	126	125	123	123	122	122	121	3032.	24			
26	121	122	122	122	121	122	123	123	125%	126%	126%	127%	126%	127%	127%	127%	127	124	124	124	123	123	123	123	2977.	24			
27	123	124	124	124	125	125	126	126	128%	129%	130%	129%	131%	130	124	113	111%	106	103	103	107	105	104	102	2851.	24			
28	104	103	115	121	123	123	124	125%	128%	129%	130%	129%	129%	129%	129%	128	129	127	127	127	127	127	127	128	2989.	24			
29	128	126	127	128	127	124	118	99	115	110	106	105	104	104	104	107	106	100	93	91	92	93	94	94	2597.	24			
30	94	91	91	95	91	95	97	100	103	107	106	104	105	104	106%	107	106	96	100	106	109	113	116	122	2465.	24			
31	120	120	119	117	117	117	118	118	122%	121%	122%	130%	131%	125%	122%	121	122%	122%	121	123	122	122	122	122	2916.	24			
AV	107	107	107	106	106	106	107	107	114	116	115	115	114	113%	113%	115%	114%	110%	109	108	106	107	107	106	2635.	\$			
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	739				

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 § - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS





Table 87.

		ATLANTA (GA TECH)												YEAR 1982												MONTH 1			
		DIRECT NORMAL KJ/M2																											
D A Y		HOUR																								TOTL	HR		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	0	1	3%	3	3	1188	553	185	19	1101	1712	451	0	0	0	0	0	0	5217.	24			
2	0	0	0	0	0	0	0	1	3	3	6%	97	79	310	15	3	3	2	0	0	0	0	0	0	522.	24			
3	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	0	28.	24			
4	0	0	0	0	0	0	0	1	1051	2753	3357	3484	3600	3574	3388	3118	2524	815%	0	0	0	0	0	0	27644.	24			
5	0	0	0	0	0	0	0	129%	1928	2940	3124	3234	3511	3390	3212	2569	1926	658%	0	0	0	0	0	0	26622.	24			
6	0	0	0	0	0	0	0	1	3	126	611	1655	18	395	404	14	5	2	0	0	0	0	0	0	3234.	24			
7	0	0	0	0	0	0	0	1	4	3	3	14	5	27	4	4	4	3	0	0	0	0	0	0	70.	24			
8	0	0	0	0	0	0	0	85	767%	677	789	1017	719	911	614	57	3	5	0	0	0	0	0	0	5643.	24			
9	0	0	0	0	0	0	0	172%	2084	2997	3305	3423	3435	3360	3213	2867	2219	674	0	0	0	0	0	0	27749.	24			
10	0	0	0	0	0	0	0	111	1034	2210	3061	3239	3412	3385	2401	350	1573	741	0	0	0	0	0	0	21527.	24			
11	0	0	0	0	0	0	0	991%	3240*	3385*	3029%	3263%	3498	3445	3385	3114	2525	947%	0	0	0	0	0	0	99999.	*21			
12	0	0	0	0	0	0	0	35	5	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	68.	24			
13	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	32.	24			
14	0	0	0	0	0	0	0	1	3	3	3	9	3	3	3	45*	72*	16*	0	0	0	0	0	0	99999.	*21			
15	0	0	0	0	0	0	0	-4%	1040*	2276*	2719*	1175*	765	614	1549	2365	2014	417	0	0	0	0	0	0	99999.	*20			
16	0	0	0	0	0	0	0	1	3	67	3	102	5	436	65	3	3	2	0	0	0	0	0	0	689.	24			
17	0	0	0	0	0	0	0	954%	3270*	2930%	3271	3443	3544	2723%	1902	1337	499	25	0	0	0	0	0	0	20887.	\$22			
18	0	0	0	0	0	0	0	1	3	3	3	4	3	3	3	3	3	2	0	0	0	0	0	0	30.	24			
19	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	8	3	0	0	0	0	0	0	36.	24			
20	0	0	0	0	0	0	0	1	14	4	4	4	14	621	716	299	80	4	0	0	0	0	0	0	1742.	24			
21	0	0	0	0	0	0	0	1	4	4	19	4	4	35	100	6	4	4	0	0	0	0	0	0	185.	24			
22	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	32.	24			
23	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	4	8	0	0	0	0	0	0	36.	24			
24	0	0	0	0	0	0	0	1	1564	2869	3243	3434	3490	3446	3336	3080	2549	1086	0	0	0	0	0	0	23097.	24			
25	0	0	0	0	0	0	0	79%	1617	2661	3098	3255	3197	2016	1682	2411	1543	297	0	0	0	0	0	0	21856.	24			
26	0	0	0	0	0	0	0	115%	1977	2907	3323	3502	3549	3493	3394	3198	2726	1232	0	0	0	0	0	0	29406.	24			
27	0	0	0	0	0	0	0	123%	1792	2628	2992	3174	3227	3211	3091	2820	2273	1059	0	0	0	0	0	0	26391.	24			
28	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	29.	24			
29	0	0	0	0	0	0	0	32	962	1641	484	644%	805	62	3	3	3	59%	0	0	0	0	0	0	4698.	24			
30	0	0	0	0	0	0	0	1	4	3	11	409	2102	1536	1577	1767	1267	250%	0	0	0	0	0	0	8929.	24			
31	0	0	0	0	0	0	0	2	4	4	4	4	4	3	3	113	64	196	0	0	0	0	0	0	402.	24			
AV	0	0	0	0	0	0	0	31%	530%	947%	1125%	1287%	1276	1200	1098	1021%	851%	299%	0	0	0	0	0	0	9667.	3			
HR	31	31	31	31	31	31	31	29	28	29	30	30	31	31	31	30	30	30	31	31	31	31	31	31	732				

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 9316.

Table 88.

ATLANTA (GA TECH) YEAR 1982 MONTH 1  
DIRECT (RG630) KJ/M2

DAY	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	1	4%	4	4	761	350	120	15	761	1268	404%	0	0	0	0	0	0	3692.	24
2	0	0	0	0	0	0	0	1	4	4	6	60	50	194	11	4	4	3	0	0	0	0	0	0	341.	24
3	0	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	4	3	0	0	0	0	0	0	38.	24
4	0	0	0	0	0	0	0	1	777	1882	2204	2250	2331	2329	2223	2135	1879	722%	0	0	0	0	0	0	18733.	24
5	0	0	0	0	0	0	0	127%	1533	2064	2077	2102	2309	2246	2181	1831	1482	603%	0	0	0	0	0	0	18555.	24
6	0	0	0	0	0	0	0	7	4	90	394	1011	17	259	280	12	7	3	0	0	0	0	0	0	2084.	24
7	0	0	0	0	0	0	0	1	5	5	5	13	6	23	5	5	5	4	0	0	0	0	0	0	77.	24
8	0	0	0	0	0	0	0	85%	606%	476	527	656	464	580	427	48	4	10	0	0	0	0	0	0	3882.	24
9	0	0	0	0	0	0	0	167%	1634	2084	2165	2192	2195	2173	2113	1980	1680	608%	0	0	0	0	0	0	18992.	24
10	0	0	0	0	0	0	0	107	836	1545	2013	2078	2191	2182	1568	244	1174	636	0	0	0	0	0	0	14575.	24
11	0	0	0	0	0	0	0	9999*	1604*	1992	2067	2167	2266	2241	2218	2119	1862	817%	0	0	0	0	0	0	19034.	22
12	0	0	0	0	0	0	0	29	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	70.	24
13	0	0	0	0	0	0	0	1	5	5	10	11	5	4	4	4	4	3	0	0	0	0	0	0	57.	24
14	0	0	0	0	0	0	0	1	4	4	4	4	4	4	4	35%	31%	27	0	0	0	0	0	0	121.	24
15	0	0	0	0	0	0	0	4	9999*	9999*	1663*	838*	534	413	1075	1687	1565	401%	0	0	0	0	0	0	99999.	20
16	0	0	0	0	0	0	0	1	4	55	7	84	7	298	48	4	4	3	0	0	0	0	0	0	513.	24
17	0	0	0	0	0	0	0	9999*	1755*	2077	2205	2248	2265	1770*	1274	946	407	45%	0	0	0	0	0	0	14195.	22
18	0	0	0	0	0	0	0	3	4	4	4	6	4	4	4	4	4	3	0	0	0	0	0	0	42.	24
19	0	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	11	5	0	0	0	0	0	0	50.	24
20	0	0	0	0	0	0	0	2	16	5	5	5	14	475	572%	284%	53%	5	0	0	0	0	0	0	1436.	24
21	0	0	0	0	0	0	0	2	5	5	16	8	16	30	73	7	5	5	0	0	0	0	0	0	173.	24
22	0	0	0	0	0	0	0	1	5	8	8	8	8	18	15	8	7	3	0	0	0	0	0	0	90.	24
23	0	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	5	15	0	0	0	0	0	0	51.	24
24	0	0	0	0	0	0	0	1	1115	1888	2092	2218	2244	2213	2177	2095	1865	931%	0	0	0	0	0	0	18838.	24
25	0	0	0	0	0	0	0	78%	1282	1868	2079	2153	2127	1365	1174%	1706	1209	604%	0	0	0	0	0	0	15646.	24
26	0	0	0	0	0	0	0	112%	1624	2106	2278	2371	2394	2366	2320	2235	2033	1080%	0	0	0	0	0	0	20920.	24
27	0	0	0	0	0	0	0	121%	1495	1957	2120	2193	2206	2201	2157	2046	1792	896%	0	0	0	0	0	0	19184.	24
28	0	0	0	0	0	0	0	1	4	4	4	4	4	4	4	5	4	14	0	0	0	0	0	0	51.	24
29	0	0	0	0	0	0	0	35%	901%	1322	391%	512%	633	53	4	5	4	2%	0	0	0	0	0	0	3864.	24
30	0	0	0	0	0	0	0	6	7	4	18	295	1476	1085	1145	1226	932	466%	0	0	0	0	0	0	6661.	24
31	0	0	0	0	0	0	0	2	5	6	8	6	5	5	4	88	72	183%	0	0	0	0	0	0	384.	24
AV	0	0	0	0	0	0	0	31%	425%	716%	758%	848%	843	796	746	695	625	275	0	0	0	0	0	0	6756.	24
HR	31	31	31	31	31	31	31	29	28	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	736	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

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Table 89.

		ATLANTA (GA TECH)												YEAR 1982		MONTH 1													
		GLOBAL HORIZ.												KJ/M2															
D A Y	HOUR																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR			
1	0	0	0	0	0	0	0	7	268%	336	334	1119%	1250	1011	702	827	584	73	0	0	0	0	0	0	6510.	24			
2	0	0	0	0	0	0	0	6	75	321	684	1148	1059	1259	748	342	102	12	0	0	0	0	0	0	5756.	24			
3	0	0	0	0	0	0	0	3	12	14	87	173	130	160	219	141	40	8	0	0	0	0	0	0	988.	24			
4	0	0	0	0	0	0	0	4	266	950	1572	1943	2130	2082	1761	1244	602	72	0	0	0	0	0	0	12627.	24			
5	0	0	0	0	0	0	0	6	320	957	1603	1980	2056	1974	1687	1101	518	80	0	0	0	0	0	0	12280.	24			
6	0	0	0	0	0	0	0	3	153	478	987	1675	940	1369	1115	239	113	35	0	0	0	0	0	0	7107.	24			
7	0	0	0	0	0	0	0	4	63	129	285	564	629	658	218	172	38	9	0	0	0	0	0	0	2768.	24			
8	0	0	0	0	0	0	0	9	321%	730	1086	1556	1488	1560	1227	642	292	50	0	0	0	0	0	0	8961.	24			
9	0	0	0	0	0	0	0	6	338	975	1572	1941	2105	2048	1748	1247	613	86	0	0	0	0	0	0	12680.	24			
10	0	0	0	0	0	0	0	5	247	891	1512	1912	2126	2192	1728	804	558	104	0	0	0	0	0	0	12080.	24			
11	0	0	0	0	0	0	0	6%	380%	951%	1546%	1847%	2148	2104	1824	1319	673	106	0	0	0	0	0	0	12905.	24			
12	0	0	0	0	0	0	0	4	134	393	429	408	425	355	220	136	125	25	0	0	0	0	0	0	2653.	24			
13	0	0	0	0	0	0	0	4%	22%	69%	201%	318%	372%	275%	267%	146%	46%	9%	0	0	0	0	0	0	1729.	24			
14	0	0	0	0	0	0	0	3%	48%	135%	389%	801%	803%	632%	432%	622%	334%	59%	0	0	0	0	0	0	4310.	24			
15	0	0	0	0	0	0	0	6%	301%	788%	980%	1498%	1670%	1610%	1757%	1339	660	86	0	0	0	0	0	0	11241.	22			
16	0	0	0	0	0	0	0	4	39	408	667	1177	719	1313	699	332	123	15	0	0	0	0	0	0	5496.	24			
17	0	0	0	0	0	0	0	7%	436%	1107%	1704%	2120%	2213	1963	1713	1173	548	81	0	0	0	0	0	0	13064.	24			
18	0	0	0	0	0	0	0	4	66	198	393	583	421	610	191	92	50	11	0	0	0	0	0	0	2619.	24			
19	0	0	0	0	0	0	0	4	53	161	279	394	478	455	311	278	218	63	0	0	0	0	0	0	2694.	24			
20	0	0	0	0	0	0	0	5	237	345	245	346	678	1427	1284	703	373	56	0	0	0	0	0	0	5699.	24			
21	0	0	0	0	0	0	0	4	56	162	662	425	415	740	814	572	159	15	0	0	0	0	0	0	4024.	24			
22	0	0	0	0	0	0	0	4	22	53	82	115	216	228	137	82	31	15	0	0	0	0	0	0	985.	24			
23	0	0	0	0	0	0	0	4	38	189	242	278	202	240	278	326	366	67	0	0	0	0	0	0	2228.	24			
24	0	0	0	0	0	0	0	9	359	1025	1640	2073	2284	2244	1966	1476	818	182	0	0	0	0	0	0	14075.	24			
25	0	0	0	0	0	0	0	13	352	990	1612	2028	2257	2028	1509	1365	719	137	0	0	0	0	0	0	13010.	24			
26	0	0	0	0	0	0	0	13	400	1086	1724	2148	2366	2327	2054	1560	882	196	0	0	0	0	0	0	14757.	24			
27	0	0	0	0	0	0	0	15	388	1040	1658	2072	2282	2248	1974	1488	833	211	0	0	0	0	0	0	14207.	24			
28	0	0	0	0	0	0	0	4	50	107	391	427	413	485	307	495	220	61	0	0	0	0	0	0	2961.	24			
29	0	0	0	0	0	0	0	13	332	926	979	1386	1793	905	559	599	176	134	0	0	0	0	0	0	7802.	24			
30	0	0	0	0	0	0	0	12	172	403	972	1205	2065	1811	1709	1469	747	178	0	0	0	0	0	0	10744.	24			
31	0	0	0	0	0	0	0	5	38	204	197	75	58	28	233	713	508	242	1	0	0	0	0	0	2302.	24			
AV	0	0	0	0	0	0	0	6	193	533	858	1141	1232	1237	1013	743	391	80	0	0	0	0	0	0	7427.	8			
HR	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	742				

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 90.

		ATLANTA (GA TECH)																								YEAR 1982		MONTH 1	
		GLOBAL (RG630) KJ/M2																											
D A Y	HOUR																								TOTL	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	0	17%	208	231	222	747	755	603	418	501	381	53	0	0	0	0	0	0	0	4135.	24		
2	0	0	0	0	0	0	0	8	54	193	400	675	617	741	435	202	70	17	0	0	0	0	0	0	0	3411.	24		
3	0	0	0	0	0	0	0	2	16	16	50	94	75	89	123	93	45	15	0	0	0	0	0	0	0	617.	24		
4	0	0	0	0	0	0	0	3	187	625	997	1206	1315	1278	1089	786	403	62	0	0	0	0	0	0	0	7948.	24		
5	0	0	0	0	0	0	0	14	265%	678	1057	1273	1309	1244	1068	713	359	68	0	0	0	0	0	0	0	8046.	24		
6	0	0	0	0	0	0	0	9	119	309	608	1039	564	809	664	154	88	37	0	0	0	0	0	0	0	4398.	24		
7	0	0	0	0	0	0	0	7	51	87	176	330	367	377	131	103	33	10	0	0	0	0	0	0	0	1671.	24		
8	0	0	0	0	0	0	0	16	256	499	704	990	937	982	779	413	206	55	0	0	0	0	0	0	0	5837.	24		
9	0	0	0	0	0	0	0	13	274%	672	1015	1215	1301	1251	1087	791	416	70	0	0	0	0	0	0	0	8105.	24		
10	0	0	0	0	0	0	0	14	209%	622	990	1214	1345	1377	1100	527	399	106%	0	0	0	0	0	0	0	7904.	24		
11	0	0	0	0	0	0	0	22%	348%	673	1027	1195%	1364	1324	1162	868	475	98	0	0	0	0	0	0	0	8556.	24		
12	0	0	0	0	0	0	0	16%	121%	269	277	255	265	222	148	103	107	49%	0	0	0	0	0	0	0	1833.	24		
13	0	0	0	0	0	0	0	9%	44%	67%	131%	188%	212%	166%	166%	111%	65%	31%	0	0	0	0	0	0	0	1191.	24		
14	0	0	0	0	0	0	0	6%	54%	94%	224%	429%	440%	352%	255%	379%	259%	71%	0	0	0	0	0	0	0	2564.	24		
15	0	0	0	0	0	0	0	18%	243%	450%	609%	807%	1005%	957%	1073%	842	431	61	0	0	0	0	0	0	0	6495.	24		
16	0	0	0	0	0	0	0	4	41	244	377	689	406	770	414	215	99	28	0	0	0	0	0	0	0	3287.	24		
17	0	0	0	0	0	0	0	25%	318%	739%	1094	1324	1429	1267%	1105	776	387	83	0	0	0	0	0	0	0	8546.	24		
18	0	0	0	0	0	0	0	17%	88%	157	264	361	261	374	133	81	62	30	0	0	0	0	0	0	0	1829.	24		
19	0	0	0	0	0	0	0	6	64	115	173	236	278	269	193	175	146	59	0	0	0	0	0	0	0	1715.	24		
20	0	0	0	0	0	0	0	9	157	210	145	201	380	840	749	412	229	39	0	0	0	0	0	0	0	3372.	24		
21	0	0	0	0	0	0	0	5	31	102	380	244	246	424	468	327	95	10	0	0	0	0	0	0	0	2351.	24		
22	0	0	0	0	0	0	0	6	38	51	66	68	119	124	78	52	32	22	0	0	0	0	0	0	0	655.	24		
23	0	0	0	0	0	0	0	1	22	105	126	141	101	129%	157	195	222	55	0	0	0	0	0	0	0	1254.	24		
24	0	0	0	0	0	0	0	12	270	689	1051	1286	1399	1378	1217	937	548	149	0	0	0	0	0	0	0	8936.	24		
25	0	0	0	0	0	0	0	24%	286%	681	1035	1271	1392	1234	921	852	468	113	0	0	0	0	0	0	0	8278.	24		
26	0	0	0	0	0	0	0	29%	336%	766	1141	1381	1506	1468	1294	1009	605	171	0	0	0	0	0	0	0	9707.	24		
27	0	0	0	0	0	0	0	32%	326%	735	1085	1319	1429	1395	1227	948	553	162	0	0	0	0	0	0	0	9210.	24		
28	0	0	0	0	0	0	0	15%	68%	96	255	273	263	307	202	326	159	67	0	0	0	0	0	0	0	2030.	24		
29	0	0	0	0	0	0	0	24	265%	627	612	857%	1103	530	337	368	123	102	0	0	0	0	0	0	0	4948.	24		
30	0	0	0	0	0	0	0	14	112	246	577	711	1251	1089	1028	905	460	119	0	0	0	0	0	0	0	6512.	24		
31	0	0	0	0	0	0	0	9	32	120	106	50	38	24	140	428	316	172	2	0	0	0	0	0	0	1439.	24		
AV	0	0	0	0	0	0	0	13	159	360	547	712	757	755	625	471	266	70	0	0	0	0	0	0	0	4735.			
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744			

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 91.

98

		ATLANTA (GA TECH)												YEAR 1982		MONTH 1											
		DIFFUSE HORIZ. KJ/M2																									
D A Y	1	2	3	4	5	6	7	8	9	10	11	12	HOUR		14	15	16	17	18	19	20	21	22	23	24	TOTL	HR
													13	13													
1	0	0	0	0	0	0	0	7	121%	338	335	571%	904	870	664	451%	228	38	0	0	0	0	0	0	0	4527.	24
2	0	0	0	0	0	0	0	3	63	302%	651%	1044	968	1042	715	331	98	9	0	0	0	0	0	0	0	5227.	24
3	0	0	0	0	0	0	0	1	12	21	95	178	135	164	221	146	49	5	0	0	0	0	0	0	0	1027.	24
4	0	0	0	0	0	0	0	2	108	180	199	250%	271%	203	187	160	108	25	0	0	0	0	0	0	0	1693.	24
5	0	0	0	0	0	0	0	1	53	122%	273%	328%	150	171	168%	150%	131	37	0	0	0	0	0	0	0	1585.	24
6	0	0	0	0	0	0	0	2	152	421	679	803	901	1106	894	249	130%	47	0	0	0	0	0	0	0	5385.	24
7	0	0	0	0	0	0	0	6	77%	151	311	568	631	636	240	196	72	14	0	0	0	0	0	0	0	2902.	24
8	0	0	0	0	0	0	0	4	205%	497	689	985	1014	997	875	588	287	50	0	0	0	0	0	0	0	6192.	24
9	0	0	0	0	0	0	0	1	62%	117%	165%	178%	198%	215	208	191	132	30	0	0	0	0	0	0	0	1499.	24
10	0	0	0	0	0	0	0	1	96	235	197	230	229	333	524	603	226	32	0	0	0	0	0	0	0	2706.	24
11	0	0	0	0	0	0	0	1	48%	118%	219%	213%	208	219	182	154	103	21	0	0	0	0	0	0	0	1486.	24
12	0	0	0	0	0	0	0	1	109	356	392	374	394	330	203	121	110	19	0	0	0	0	0	0	0	2411.	24
13	0	0	0	0	0	0	0	2%	16%	63%	189%	300%	354%	265%	259%	145%	49%	5%	0	0	0	0	0	0	0	1646.	24
14	0	0	0	0	0	0	0	1%	46%	131%	376%	744%	776%	611%	421%	593%	364%	60%	0	0	0	0	0	0	0	4123.	24
15	0	0	0	0	0	0	0	1%	154%	263%	344%	764%	1184%	1207%	931%	420	188	48	0	0	0	0	0	0	0	5503.	24
16	0	0	0	0	0	0	0	1	47	384	644	1065	677	1000	632	318	116	10	0	0	0	0	0	0	0	4894.	24
17	0	0	0	0	0	0	0	1	53%	120%	155	179	191	433%	675	569	367	68	0	0	0	0	0	0	0	2811.	24
18	0	0	0	0	0	0	0	1	56	184	372	550	402	581	185	91	50	5	0	0	0	0	0	0	0	2477.	24
19	0	0	0	0	0	0	0	1	59	171	287	396	472	455	322	293	231	78	0	0	0	0	0	0	0	2765.	24
20	0	0	0	0	0	0	0	9	253	354	254	349	657	1030	878	558	364	72	0	0	0	0	0	0	0	4778.	24
21	0	0	0	0	0	0	0	4	81	185	655	443	428	710	746	563	169	18	0	0	0	0	0	0	0	4000.	24
22	0	0	0	0	0	0	0	2	20	48	77	110	208	219	130	78	31	10	0	0	0	0	0	0	0	933.	24
23	0	0	0	0	0	0	0	2	43	196	244	276	204	242%	280	333	371	74	0	0	0	0	0	0	0	2264.	24
24	0	0	0	0	0	0	0	6	98	135	169	185	196	205	197	179	137	48	0	0	0	0	0	0	0	1554.	24
25	0	0	0	0	0	0	0	6	109	160	198	235	329	778	587	324	270	96	0	0	0	0	0	0	0	3092.	24
26	0	0	0	0	0	0	0	3	79	154	187	210	223	230	214	182	131	45	0	0	0	0	0	0	0	1660.	24
27	0	0	0	0	0	0	0	4	94	187	244	279	295	291	273	241	182	71	0	0	0	0	0	0	0	2162.	24
28	0	0	0	0	0	0	0	2	37	91	366	407	403	473	303	484	217	61	0	0	0	0	0	0	0	2843.	24
29	0	0	0	0	0	0	0	9	218	416%	806%	1033%	1261	840	553	589	183	132	0	0	0	0	0	0	0	6042.	24
30	0	0	0	0	0	0	0	10	164	390	921	910	702	790	773	690	384	159	0	0	0	0	0	0	0	5881.	24
31	0	0	0	0	0	0	0	4	38	201	196	103	90	64	252	656	482	208	0	0	0	0	0	0	0	2295.	24
AV	0	0	0	0	0	0	0	3	89	216	351	460	486	539	442	343	192	51	0	0	0	0	0	0	0	3173.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 92.

ATLANTA (GA TECH) YEAR 1982 MONTH 1

LAT. TILTED KJ/M2

DAY	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	14	266	303	294	1775	1623	1177	682	1321	1167	207	0	0	0	0	0	0	8810.	24
2	0	0	0	0	0	0	0	12	70	278	648	1335%	1094	1548%	754	301	90	28	0	0	0	0	0	0	6157.	24
3	0	0	0	0	0	0	0	12	41	41	70	144	103	129	179	114	48	29	0	0	0	0	0	0	909.	24
4	0	0	0	0	0	0	0	12	658	1964	2862	3366	3630	3554	3082	2390	1439	261%	0	0	0	0	0	0	23219.	24
5	0	0	0	0	0	0	0	45	927	1995	2772	3271	3519	3369	2953	2072	1191	265	0	0	0	0	0	0	22380.	24
6	0	0	0	0	0	0	0	12	142	528	1345	2556	948	1673	1384	224	100	41	0	0	0	0	0	0	8953.	24
7	0	0	0	0	0	0	0	12	57	128	268	538	585	604	189	151	45	30	0	0	0	0	0	0	2608.	24
8	0	0	0	0	0	0	0	38	618	1092	1561	2124	2008%	2135	1593	682	281	60	0	0	0	0	0	0	12190.	24
9	0	0	0	0	0	0	0	52	972	2016	2822	3324	3553	3442	3032	2316	1364	274	0	0	0	0	0	0	23166.	24
10	0	0	0	0	0	0	0	38	604	1725	2709	3259	3571	3565	2764	983	1109	324	0	0	0	0	0	0	20650.	24
11	0	0	0	0	0	0	0	43%	1005	1966	2761	3198	3634	3549	3161	2465	1518	368	0	0	0	0	0	0	23668.	24
12	0	0	0	0	0	0	0	17	155%	390	388	365	380	317	205	130	120	40	0	0	0	0	0	0	2507.	24
13	0	0	0	0	0	0	0	13%	46%	73%	186%	294%	342%	255%	243%	137%	52%	34%	0	0	0	0	0	0	1675.	24
14	0	0	0	0	0	0	0	13%	55%	114%	332%	733%	715%	549%	380%	682%	504%	87%	0	0	0	0	0	0	4165.	24
15	0	0	0	0	0	0	0	19%	674%	1758%	2673%	2365%	2227%	2100%	2549%	2334	1381	236	0	0	0	0	0	0	17997.	24
16	0	0	0	0	0	0	0	13	56	456	624	1320	670	1581	736	298	107	38	0	0	0	0	0	0	5899.	24
17	0	0	0	0	0	0	0	37%	963%	2013	2847	3411	3660	3177	2695	1864	835	112	0	0	0	0	0	0	21614.	24
18	0	0	0	0	0	0	0	14	69	178	352	558	373	557	171	84	55	39	0	0	0	0	0	0	2449.	24
19	0	0	0	0	0	0	0	14	67	155	250	350	419	399	273	245	206	79	0	0	0	0	0	0	2457.	24
20	0	0	0	0	0	0	0	15	248	302	207	290	646	1869	1782	952	409	67	0	0	0	0	0	0	6788.	24
21	0	0	0	0	0	0	0	15	70	145	657	371	362	736	795	530	150	43	0	0	0	0	0	0	3873.	24
22	0	0	0	0	0	0	0	15	45	51	76	104	193	209	119	74	50	43	0	0	0	0	0	0	978.	24
23	0	0	0	0	0	0	0	16	52	164	210	235	172	206%	240	295	387	89	0	0	0	0	0	0	2065.	24
24	0	0	0	0	0	0	0	18	811	1946	2795	3384	3669	3614	3227	2549	1620	496	0	0	0	0	0	0	24129.	24
25	0	0	0	0	0	0	0	43	827	1862	2727	3300	3538	2918	2343	2298	1290	272	0	0	0	0	0	0	21417.	24
26	0	0	0	0	0	0	0	48	943	2002	2886	3486	3760	3694	3299	2637	1707	517	0	0	0	0	0	0	24980.	24
27	0	0	0	0	0	0	0	52	883	1875	2723	3309	3595	3553	3153	2470	1545	499	0	0	0	0	0	0	23657.	24
28	0	0	0	0	0	0	0	18	58	92	341	373	367	432	274	455	197	70	0	0	0	0	0	0	2675.	24
29	0	0	0	0	0	0	0	32	654	1574	1219	1773%	2327%	913	505	552	154	164	0	0	0	0	0	0	9866.	24
30	0	0	0	0	0	0	0	24	170	362	965	1450	3116	2618	2464	2140	1197	288	0	0	0	0	0	0	14794.	24
31	0	0	0	0	0	0	0	21	52	161	155	76	70	52	220	746	543	310	5	0	0	0	0	0	2412.	24
AV	0	0	0	0	0	0	0	24	395	894	1268	1669	1770	1758	1465	1113	673	175	0	0	0	0	0	0	11204.	\$
HR	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	742	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 93.

		ATLANTA (GA TECH) YEAR 1982 MONTH 1																									
		INFRARED 10 KJ/M2																									
D	HOUR																										
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR	
Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1	121	121	121	122	122	122	123	124	124	126	128	127	122	125	129	113	113	105	100	99	98	98	96	96	96	2776	24
2	97	100	104	108	110	112	113	112	128	128	127	124	128	125	129	130	130	130	129	128	129	127	127	126	2900	24	
3	127%	126	124	123	125%	124%	128%	128%	130%	124%	124%	124%	125%	125%	125%	126%	125%	124%	125%	125%	126%	127%	127%	131%	3016	24	
4	144%	143%	148%	147%	140	128	126	114	114	115	109	108	106	102	103	106	106	97%	91%	90%	89%	87%	86%	84%	2680	24	
5	84	84	84	83	82	82	83	85	98	105%	104%	105%	105%	105%	106	108%	111	104	99%	101	100	99	98	95	2313	24	
6	98	102	101	103	105	105	111	118	127	127	122	121	135	130	135	143	143	141	135	139	133	138	138	137	2988	24	
7	140	140	141	142	143	143	144	145	147	147	148	148	146	144	146	145	148	141	137	129	120	117	112	100	3312	24	
8	101	97	93	90	88	88	90	91	101	106	106	105%	105%	108	111	112	110	105	92	89	86	85	84	84	2327	24	
9	84	83	83	82	81	79	77	79	94	97	95	95	96	96	98	98	99	92	86	84	82	80	80	79	2100	24	
10	79	78	77	77	76	76	76	77	87	91	85	82	81%	81	85	90	82	86	81	80	69	64	62	61	1885	24	
11	59%	58%	57%	56%	55%	59	62%	65%	81%	86%	68%	75%	82%	83%	85%	88%	89%	84%	78%	77%	77%	76%	77%	77%	1757	24	
12	77%	78	78	77	77	79	86	102%	109%	112%	114%	115%	116%	117%	117%	116%	115%	113%	114%	113%	114%	113%	113%	113%	2482	24	
13	114%	114%	114%	114%	114%	115%	116%	116%	117%	118%	117%	116%	116%	116%	112%	117%	117%	116%	115%	117%	116%	115%	115%	115%	116%	2769	24
14	115%	115%	115%	116%	115%	117%	116%	115%	116%	115%	115%	113%	115%	116%	114%	116%	115%	109%	103%	102%	101%	100%	100%	99%	2673	24	
15	99%	100%	99%	98%	99%	99%	99%	101%	110%	104%	109%	102%	95%	99%	97%	98	102	98	94	93	93	95	97	99	2379	24	
16	101	107	110	123%	122	122	121%	122%	126%	126%	127%	127%	124	128	118	124	125	124	119	110	107	101	96	91	83	2759	24
17	75	73	70	67	65	63	65	66	82%	88%	86%	87%	88%	90%	92%	95%	98%	94%	90	92	91	91	90	90	1989	24	
18	91	91	93	92	97	106%	115%	116%	123%	126%	126%	127%	127%	130%	130%	130%	130%	129%	120%	125%	125%	127%	129%	130%	2834	24	
19	131%	132%	133%	133%	134%	134%	137%	134%	136%	140%	135%	137%	139%	143%	146%	149%	148	141	134	134	134	136	141	144	3306	24	
20	141	140	144	145	145	144	145	145	143	149	149	150	148	139	139	140	147	143	148	136	137	143	147	146	3452	24	
21	148	149	150	147%	144	145%	147	146	149%	149	147	149	150	147	146	144	145	144	143	142	141	141	141	140	3494	24	
22	143	144	140	132%	129%	134%	131	130	130	129	124%	133%	128%	127%	126%	127%	126%	123%	122	123%	123%	122%	122%	121	3089	24	
23	121	123%	123%	122	122%	126%	128%	124%	134%	134%	131%	134%	134%	134%	135%	135%	128	124	114	110	106	98	92	90	2921	24	
24	90	89	88	87	87	89	98	92	99	102	98	95	94	86%	98	99	103	99	93	92	94	94	95%	96%	2258	24	
25	91	91	90	89	89	90	90	92	105	109	108	108	109	111	113	113	117	122	110	103	97	96	94	91	2427	24	
26	87	87	85	82	79	76	75	77	90	92	89	86	84	84	85	87	92	89	84	82	81%	81	81	81	2016	24	
27	82	82	82	82	82	82	83	85	97	100	96	97	95	96	99	99	91%	100	96	94	93	92	91	90	2188	24	
28	89	88	87	87	90	109	119%	122%	124%	124%	125%	126%	128%	129%	129	129	129	127	126	104	103	103	99	99	2725	24	
29	98	100	98	97	97	96	96	98	108	113	122	120%	118%	132	131%	136	136	128	118	114	108	111	117	121	2715	24	
30	119	110	109	107	112	105	106	114	121	131%	131	123	117	117	126	130	128	126	124	119	122	126	124	130	2877	24	
31	138	138	139	135	136	141	143	145	145	146	147	149	145	137	134	131	126	127	126	131	126	109	117	114	3224	24	
AV	106	106	106	105	105	106	108	109	116	118	117	116	116	116	118	119	119	116	111	110	107	106	106	105	2665		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744		

001

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 94.

ATLANTA (GA TECH) YEAR 1982 MONTH 1  
ULTRAVIOLET KJ/M2

D A Y	HOUR																								T O T A L	H R		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	0	0	12	21	26	69	77	63	43	46	24	3	0	0	0	0	0	0	384.	24		
2	0	0	0	0	0	0	0	0%	4%	20	43	69	64	72	48	24	6	0%	0	0	0	0	0	0	0	349.	24	
3	0	0	0	0	0	0	0	0	0	2	4	9	16	14	15	19	13	6	1	0	0	0	0	0	0	100.	24	
4	0	0	0	0	0	0	0	0	13	43	73	95	105	102	83	56	26	3	0	0	0	0	0	0	0	600.	24	
5	0	0	0	0	0	0	0	0%	13	43	75	96	101	92	74	48	22	3	0	0	0	0	0	0	0	567.	24	
6	0	0	0	0	0	0	0	0%	7%	26	55	83	56	77	60	16	7	2	0	0	0	0	0	0	0	390.	24	
7	0	0	0	0	0	0	0	0%	4%	10	21	39	42	46	18	14	4	1%	0	0	0	0	0	0	0	198.	24	
8	0	0	0	0	0	0	0	0%	12	37	59	81	81	82	64	36	16	2	0	0	0	0	0	0	0	470.	24	
9	0	0	0	0	0	0	0	0%	13	43	75	98	108	103	85	57	26	3%	0	0	0	0	0	0	0	609.	24	
10	0	0	0	0	0	0	0	0%	11	40	73	97	110	110	87	44	25	3%	0	0	0	0	0	0	0	599.	24	
11	0	0	0	0	0	0	0	0%	10%	41	73	92	111	108	90	60	28	3%	0	0	0	0	0	0	0	616.	24	
12	0	0	0	0	0	0	0	0%	5%	21	27	27	28	25	15	9	7	1%	0	0	0	0	0	0	0	164.	24	
13	0	0	0	0	0	0	0	0%	2%	6%	17%	27%	31%	23%	21%	11%	3%	0%	0	0	0	0	0	0	0	141.	24	
14	0	0	0	0	0	0	0	0%	4%	12%	32%	65%	64%	53%	35%	45%	26%	4%	0	0	0	0	0	0	0	341.	24	
15	0	0	0	0	0	0	0	0%	12%	43%	74%	99%	103%	100%	95%	68	32	5	0	0	0	0	0	0	0	630.	22	
16	0	0	0	0	0	0	0	0%	2%	25	44	72	47	77	46	22	7	0%	0	0	0	0	0	0	0	342.	24	
17	0	0	0	0	0	0	0	0%	12	44	78	104	116	102	87	58	27	4%	0	0	0	0	0	0	0	632.	24	
18	0	0	0	0	0	0	0	0%	3%	13	26	39	30	40	15	7	4	0%	0	0	0	0	0	0	0	177.	24	
19	0	0	0	0	0	0	0	0%	3%	12	21	30	38	35	24	22	15	4	0	0	0	0	0	0	0	202.	24	
20	0	0	0	0	0	0	0	0%	14	21	18	27	49	79	73	44	22	5	0	0	0	0	0	0	0	352.	24	
21	0	0	0	0	0	0	0	0%	5	14	45	32	32	48	50	37	12	1%	0	0	0	0	0	0	0	276.	24	
22	0	0	0	0	0	0	0	0%	0%	2	5	7	15	16	10	5	2%	0%	0	0	0	0	0	0	0	62.	24	
23	0	0	0	0	0	0	0	0%	3%	14	19	23	16	19	21	23	24	4%	0	0	0	0	0	0	0	165.	24	
24	0	0	0	0	0	0	0	0%	15	48	81	108	121	118	100	71	37	8	0	0	0	0	0	0	0	706.	24	
25	0	0	0	0	0	0	0	0%	15	47	80	105	117	108	80	65	33	7	0	0	0	0	0	0	0	656.	24	
26	0	0	0	0	0	0	0	0%	15	48	83	109	122	118	100	72	37	8	0	0	0	0	0	0	0	713.	24	
27	0	0	0	0	0	0	0	0%	15	46	79	104	117	114	96	68	35	8	0	0	0	0	0	0	0	681.	24	
28	0	0	0	0	0	0	0	0%	1%	5	24	27	27	32	22	28	13	3%	0	0	0	0	0	0	0	184.	24	
29	0	0	0	0	0	0	0	0%	15	44	55	74	93	57	38	36	12	6	0	0	0	0	0	0	0	429.	24	
30	0	0	0	0	0	0	0	0%	13	27	59	74	109	98	88	67	36	9	0	0	0	0	0	0	0	580.	24	
31	0	0	0	0	0	0	0	0%	2%	15	15	9	7	4	19	44	31	10%	0%	0	0	0	0	0	0	157.	24	
AV	0	0	0	0	0	0	0	0	8	27	46	63	69	69	55	39	20	4	0	0	0	0	0	0	0	400.	\$	
HR	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	742	

101  
 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 95.

		ATLANTA (GA TECH)																								YEAR 1982		MONTH 1	
		AVAILABLE SUNSHINE %																											
D A Y	HOUR																								AVG	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	0	0	0%	0	0	44	24	10	1	48	93	43	0	0	0	0	0	0	25.	24			
2	0	0	0	0	0	0	0	0	0	0	0%	4	3	16	1	0	0	0	0	0	0	0	0	0	3.	24			
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
4	0	0	0	0	0	0	0	0	0	72	100	100	100	100	100	100	100	89	0	0	0	0	0	0	94.	24			
5	0	0	0	0	0	0	0	38	92	100	100	99	100	100	100	97%	94	89	0	0	0	0	0	0	95.	24			
6	0	0	0	0	0	0	0	0	0	8	36	88	1	22	20	1	0	0	0	0	0	0	0	0	18.	24			
7	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.	24			
8	0	0	0	0	0	0	0	0	52%	44	44	51	45	62	35	0	0	0	0	0	0	0	0	0	34.	24			
9	0	0	0	0	0	0	0	61	100	100	100	100	100	100	100	100	100	72	0	0	0	0	0	0	97.	24			
10	0	0	0	0	0	0	0	6	74	90	100	100	100	100	100	100	25	77	74	0	0	0	0	0	83.	24			
11	0	0	0	0	0	0	0	50%	100%	100%	100	100%	100	100	100	100	100	88	0	0	0	0	0	0	99.	24			
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1.	24			
15	0	0	0	0	0	0	0	0	74	100%	100%	67%	33	30	67	98	98	44	0	0	0	0	0	0	70.	24			
16	0	0	0	0	0	0	0	0	0	4	0	5	0	22	4	0	0	0	0	0	0	0	0	0	4.	24			
17	0	0	0	0	0	0	0	50%	100%	100%	100	100	100	100%	100	98	28	0	0	0	0	0	0	0	83.	24			
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
20	0	0	0	0	0	0	0	0	0	0	0	1	0	1	37	48	10	2	0	0	0	0	0	0	10.	24			
21	0	0	0	0	0	0	0	0	0	0	1	0	0	2	5	0	0	0	0	0	0	0	0	0	1.	24			
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
24	0	0	0	0	0	0	0	0	78	100	100	100	100	100	100	100	100	73	0	0	0	0	0	0	93.	24			
25	0	0	0	0	0	0	0	21	100	100	100	100	100	99	73	100	100	7	0	0	0	0	0	0	87.	24			
26	0	0	0	0	0	0	0	37	100	100	100	100	100	100	100	100	86	0	0	0	0	0	0	0	97.	24			
27	0	0	0	0	0	0	0	38	100	100	100	100	100	100	100	100	100	76	0	0	0	0	0	0	96.	24			
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24			
29	0	0	0	0	0	0	0	0	74	100	28	39%	48	4	0	0	0	3%	0	0	0	0	0	0	28.	24			
30	0	0	0	0	0	0	0	0	0	0	21	98	87	75	99	94	1	0	0	0	0	0	0	0	46.	24			
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	16	0	0	0	0	0	0	3.	24			
AV	0	0	0	0	0	0	0	7	36	40	39	40	40	41	40	36	39	23	0	0	0	0	0	0	37.				
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744			

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 32.

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Table 96.

ATLANTA (GA TECH) YEAR 1992 MONTH 2

DIRECT NORMAL KJ/M2

		HOUR																								TOTL	HR
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	-----	----	
)	0	0	0	0	0	0	0	62%	1403	2706	3203	3266	3386	3050	3113	1389	181	4	0	0	0	0	0	0	0	21762.	24
)	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	29.	24
)	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	31.	24
)	0	0	0	0	0	0	0	1	3	3	3	138%	708%	2885	2112	1156	207	317	1	0	0	0	0	0	0	7334.	24
)	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0	32.	24
)	0	0	0	0	0	0	0	2	3	3	3	21	141	25	1448	2516	2012	631	7	0	0	0	0	0	0	8811.	24
)	0	0	0	0	0	0	0	1	1870	2638	2916	3131	3220	3155	829	97	1294	424	5	0	0	0	0	0	0	19378.	24
)	0	0	0	0	0	0	0	1	639	350	195	23	14	11	23	8	3	3	1	0	0	0	0	0	0	1273.	24
)	0	0	0	0	0	0	0	2	3	3	3	3	5	4	4	4	4	4	1	0	0	0	0	0	0	39.	24
)	0	0	0	0	0	0	0	55	1533	2742	2997	3251	3468	3445	3238	2688	1048%	9	1	0	0	0	0	0	0	24475.	24
)	0	0	0	0	0	0	0	1	2	2	1908	2829	2933	2912	2867	2317	1786	239	54	0	0	0	0	0	0	17851.	24
)	0	0	0	0	0	0	0	1	10	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0	36.	24
)	0	0	0	0	0	0	0	1	2	2	810	169	1780	2979	3199	3058	2675	1652	80	0	0	0	0	0	0	16408.	24
)	0	0	0	0	0	0	0	156	1534	2702	2985	2692	2655	2951	2618	2129	1463	437	1	0	0	0	0	0	0	22324.	24
)	0	0	0	0	0	0	0	2	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0	30.	24
)	0	0	0	0	0	0	0	2	3	3	3	3	11	3	3	3	3	3	1	0	0	0	0	0	0	42.	24
)	0	0	0	0	0	0	0	2	4	8	608	789	4	3	128	439	194	126	2	0	0	0	0	0	0	2306.	24
)	0	0	0	0	0	0	0	2	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0	31.	24
)	0	0	0	0	0	0	0	2	3	2	199	2156	3073	3147	3074	2886	2589	1752	200	0	0	0	0	0	0	19083.	24
)	0	0	0	0	0	0	0	651%	2354%	2960	3211	3353	3406	3394	3029	1836	2124	1132	5	0	0	0	0	0	0	27453.	24
)	0	0	0	0	0	0	0	512%	2180	2954	3333	3497	3559	3555	3455	3296	2945	2137	358%	0	0	0	0	0	0	31781.	24
)	0	0	0	0	0	0	0	679%	2395	3043	3336	3479	3516	3478	3366	3143	2847	2084	355%	0	0	0	0	0	0	31722.	24
)	0	0	0	0	0	0	0	677%	2334	2889	3103	3203	3228	3190	2930	2644	2233	1373	61	0	0	0	0	0	0	27865.	24
)	0	0	0	0	0	0	0	201	1334	2462	2851	3131	3238	3269	2205	1446	2077	1359	153	0	0	0	0	0	0	23726.	24
)	0	0	0	0	0	0	0	342	1573	2520	1035	1107	2425	2443	1027	681	40	3	2	0	0	0	0	0	0	13199.	24
)	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	25.	24
)	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	24.	24
)	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	27.	24
0	0	0	0	0	0	0	0	120	679	1000	1169	1295	1457	1561	1382	1134	920	490	46	0	0	0	0	0	0	11253.	
28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	20	28	28	28	28	672	

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 S:  
 QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 97.

ATLANTA (GA TECH) YEAR 1982 MONTH 2

DIRECT (RG630) KJ/M2

DAY	HOURLY																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	50%	1029	1938	2185	2188	2253	2041	2114	979	168	10	1	0	0	0	0	0	14956.	24
2	0	0	0	0	0	0	0	2	5	8	4	3	3	3	3	3	3	3	0	0	0	0	0	0	42.	24
3	0	0	0	0	0	0	0	2	3	4	4	4	4	4	4	4	4	4	1	0	0	0	0	0	39.	24
4	0	0	0	0	0	0	0	2	4	3	4	7*	10*	1977*	1481	854	171	296%	1	0	0	0	0	0	99999.	21
5	0	0	0	0	0	0	0	2	4	4	4	4	6	6	6	4	4	4	1	0	0	0	0	0	46.	24
6	0	0	0	0	0	0	0	2	4	4	5	22	110	36	1006	1811	1593	802%	10	0	0	0	0	0	5404.	24
7	0	0	0	0	0	0	0	2	1365	1942	2050	2158	2202	2170	587	91%	1117%	561%	5	0	0	0	0	0	14252.	24
8	0	0	0	0	0	0	0	2	535	284	151	28	21	15	27	11	5	4	1	0	0	0	0	0	1085.	24
9	0	0	0	0	0	0	0	2	4	4	4	5	7	5	5	5	5	4	1	0	0	0	0	0	51.	24
10	0	0	0	0	0	0	0	59%	1248	1998	2086%	2174	2305	2303	2207	1905	817%	18	1	0	0	0	0	0	17122.	24
11	0	0	0	0	0	0	0	2	3	3	1341	1949	2032	2028	2018	1677	1390	182%	4*	0	0	0	0	0	13350.	22
12	0	0	0	0	0	0	0	2	26	3	3	5	5	5	6	3	3	4	4	0	0	0	0	0	69.	24
13	0	0	0	0	0	0	0	2	3	3	573	126	1216	2016	2174	2126	1960	1389%	79%	0	0	0	0	0	11667.	24
14	0	0	0	0	0	0	0	161%	1210	1951	2064	1852	1806	2009	1813	1538	1141	571%	1	0	0	0	0	0	16118.	24
15	0	0	0	0	0	0	0	5	21	28	34	13	11	4	4	4	4%	4	1	0	0	0	0	0	132.	24
16	0	0	0	0	0	0	0	2	4	4	4	4	8	4	4	4	4	4	2	0	0	0	0	0	48.	24
17	0	0	0	0	0	0	0	3	5	9	443	543	5	4	107	360%	172%	119%	7	0	0	0	0	0	1778.	24
18	0	0	0	0	0	0	0	2	4	4	4	6	4	4	9	4	3	4	2	0	0	0	0	0	49.	24
19	0	0	0	0	0	0	0	2	3	3	138	1439	2041	2092	2067	1996	1878	1453	727%	0	0	0	0	0	13840.	24
20	0	0	0	0	0	0	0	590%	1625	2019	2121	2175	2197	2189	1983	1248	1518	938%	5	0	0	0	0	0	18609.	24
21	0	0	0	0	0	0	0	466%	1592	1979	2147	2237	2257	2275	2237	2178	2041	1669	350%	0	0	0	0	0	21429.	24
22	0	0	0	0	0	0	0	616%	1812	2082	2188	2240	2244	2227	2183	2105	1990	1637	345%	0	0	0	0	0	21658.	24
23	0	0	0	0	0	0	0	590%	1700	1935	2013	2067	2075	2059	1916	1816	1647	1174%	587%	0	0	0	0	0	19578.	24
24	0	0	0	0	0	0	0	208%	1096%	1765	1945	2055	2089	2109	1461	1030%	1549	1177%	589%	0	0	0	0	0	17073.	24
25	0	0	0	0	0	0	0	327%	1211	1758	708	740	1576	1600	700	495	40	4	2	0	0	0	0	0	9162.	24
26	0	0	0	0	0	0	0	2	3	3	3	9	13	14	15	13	14	13	6	0	0	0	0	0	108.	24
27	0	0	0	0	0	0	0	2	3	3	3	2	3	3	3	3	3	3	2	0	0	0	0	0	32.	24
28	0	0	0	0	0	0	0	10	5	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	44.	24
AV	0	0	0	0	0	0	0	111	519	705	794	891%	981%	1008%	934	795	687	440%	101%	0	0	0	0	0	7967.	24
HR	28	28	28	28	28	28	28	28	28	28	28	27	27	27	28	28	28	27	27	28	28	28	28	28	667	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 98.

ATLANTA (GA TECH) YEAR 1982 MONTH 2  
GLOBAL HORIZ. KJ/M2

D A Y	GLOBAL HORIZ. KJ/M2																								T O T A L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	12	366	1102	1760	2190	2427	2315	2065	1260	607	142	1	0	0	0	0	0	14248.	24	
2	0	0	0	0	0	0	0	5	40	152	46	54	164	268	245	101	15	16	1	0	0	0	0	0	1108.	24	
3	0	0	0	0	0	0	0	5	11	25	120	257	336	303	395	228	188	35	2	0	0	0	0	0	1904.	24	
4	0	0	0	0	0	0	0	7	79	268	509	1208	1678	2329	1851	1226	475	221	2	0	0	0	0	0	9852.	24	
5	0	0	0	0	0	0	0	5	54	178	390	413	451	650	210	222	112	16	2	0	0	0	0	0	2705.	24	
6	0	0	0	0	0	0	0	5	87	229	320	928	1449	1367	1911	1699	983	281	5	0	0	0	0	0	9264.	24	
7	0	0	0	0	0	0	0	17	455	1166	1743	2223	2398	2388	1444	917	859	213	4	0	0	0	0	0	13826.	24	
8	0	0	0	0	0	0	0	27	402	830	994	1009	1244	1107	1123	605	257	126	3	0	0	0	0	0	7727.	24	
9	0	0	0	0	0	0	0	6	29	14	220	197	739	297	134	29	94	18	3	0	0	0	0	0	1780.	24	
10	0	0	0	0	0	0	0	24	476	1243	1792	2341	2563	2558	2242	1661	909	188	4	0	0	0	0	0	16000.	24	
11	0	0	0	0	0	0	0	8	113	390	1476	2159	2407	2339	2106	1609	977	244	8	0	0	0	0	0	13837.	24	
12	0	0	0	0	0	0	0	22	319	498	640	438	706	483	139	247	338	102	3	0	0	0	0	0	3937.	24	
13	0	0	0	0	0	0	0	6	50	352	1332	1253	2276	2489	2302	1817	1124	385	8	0	0	0	0	0	13394.	24	
14	0	0	0	0	0	0	0	37	517	1269	1902	2266	2430	2490	2188	1655	1008	336	10	0	0	0	0	0	18106.	24	
15	0	0	0	0	0	0	0	7	63	228	442	399	492	176	267	116	204	51	4	0	0	0	0	0	2450.	24	
16	0	0	0	0	0	0	0	18	109	399	483	324	434	327	138	111	84	34	4	0	0	0	0	0	2466.	24	
17	0	0	0	0	0	0	0	18	201	451	1331	1296	597	704	583	1055	523	183	11	0	0	0	0	0	6954.	24	
18	0	0	0	0	0	0	0	8	71	168	279	522	445	468	491	518	380	158	7	0	0	0	0	0	3513.	24	
19	0	0	0	0	0	0	0	8	118	201	904	2310	2691	2667	2381	1883	1210	457	20	0	0	0	0	0	14851.	24	
20	0	0	0	0	0	0	0	79	627	1396	2021	2470	2704	2688	2354	1535	1181	409	7	0	0	0	0	0	17472.	24	
21	0	0	0	0	0	0	0	80	646	1433	2092	2568	2798	2774	2481	1981	1285	511	27	0	0	0	0	0	18676.	24	
22	0	0	0	0	0	0	0	97	702	1474	2114	2582	2801	2754	2464	1958	1290	526	32	0	0	0	0	0	18795.	24	
23	0	0	0	0	0	0	0	101	686	1417	2028	2466	2678	2662	2335	1841	1167	440	17	0	0	0	0	0	17838.	24	
24	0	0	0	0	0	0	0	96	581	1363	1987	2480	2729	2738	2293	1666	1198	449	28	0	0	0	0	0	17608.	24	
25	0	0	0	0	0	0	0	112	653	1455	1889	2103	2641	2446	1838	1461	652	207	14	0	0	0	0	0	15474.	24	
26	0	0	0	0	0	0	0	9	46	124	162	214	218	231	218	138%	74%	23%	5%	0	0	0	0	0	1461.	24	
27	0	0	0	0	0	0	0	9%	29%	90%	183%	270%	250%	257%	425%	321	180	79	6	0	0	0	0	0	2100.	24	
28	0	0	0	0	0	0	0	37	237	590	565	662	720	818	677	505	356	99	8	0	0	0	0	0	5275.	24	
AV	0	0	0	0	0	0	0	31	278	661	1062	1343	1552	1539	1332	1013	633	212	9	0	0	0	0	0	9665.		
HR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

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Table 99.

		ATLANTA (GA TECH) YEAR 1982 MONTH 2																										
		GLOBAL (RG630) KJ/M2																										
D	A	HOUR																								TOTL	HR	
Y		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	----	----	
1	0	0	0	0	0	0	0	0	17	278	751	1141	1394	1529	1451	1291	791	388	105	2	0	0	0	0	0	0	9138.	24
2	0	0	0	0	0	0	0	0	15	58%	115	54	48	106	157	149	82	25	35	4	0	0	0	0	0	0	849.	24
3	0	0	0	0	0	0	0	0	2	17	36	82	148	190	173	222	140	128	48	3	0	0	0	0	0	0	1189.	24
4	0	0	0	0	0	0	0	0	8	58	165	302	722	1009	1427	1125	753	302	162	4	0	0	0	0	0	0	6036.	24
5	0	0	0	0	0	0	0	0	12	55	117	227	232	252	365	130	143	86	37	4	0	0	0	0	0	0	1660.	24
6	0	0	0	0	0	0	0	0	14	71	143	184	527	835	790	1130	1035	621	195	8	0	0	0	0	0	0	5554.	24
7	0	0	0	0	0	0	0	0	30%	353%	797	1133	1401	1523	1486	886	563	555	147	6	0	0	0	0	0	0	8880.	24
8	0	0	0	0	0	0	0	0	29	281	534	611	593	730	649	662	356	158	90	5	0	0	0	0	0	0	4698.	24
9	0	0	0	0	0	0	0	0	7	39	21	128	117	407	170	82	37	72	28	4	0	0	0	0	0	0	1113.	24
10	0	0	0	0	0	0	0	0	36	352	839	1158	1477	1605	1580	1386	1034	576	131	7	0	0	0	0	0	0	10182.	24
11	0	0	0	0	0	0	0	0	19	98	251	933	1350	1494	1443	1298	989	619	161	8	0	0	0	0	0	0	8664.	24
12	0	0	0	0	0	0	0	0	29	222	314	379	259	406	281	92	154	214	90	10	0	0	0	0	0	0	2452.	24
13	0	0	0	0	0	0	0	0	23	58%	223	822	759	1401	1532	1425	1135	729	266	8	0	0	0	0	0	0	8380.	24
14	0	0	0	0	0	0	0	0	44	381	857	1211	1401	1480	1514	1330	1014	632	219	9	0	0	0	0	0	0	10091.	24
15	0	0	0	0	0	0	0	0	15	66	147	259	216	265	106	147	74	129	57	6	0	0	0	0	0	0	1486.	24
16	0	0	0	0	0	0	0	0	29	87	234	262	177	224	166	71	62	56	31	5	0	0	0	0	0	0	1403.	24
17	0	0	0	0	0	0	0	0	20	134	270	796	747	325	402	354	645	307	120	7	0	0	0	0	0	0	4126.	24
18	0	0	0	0	0	0	0	0	23%	77%	121	174	301	248	259	278	299	227	104	8	0	0	0	0	0	0	2119.	24
19	0	0	0	0	0	0	0	0	28%	103	137	544	1409	1628	1609	1442	1148	761	306	19	0	0	0	0	0	0	9134.	24
20	0	0	0	0	0	0	0	0	78	447	906	1269	1521	1645	1619	1411	913	727	259	5	0	0	0	0	0	0	10800.	24
21	0	0	0	0	0	0	0	0	76	454	911	1292	1560	1689	1671	1492	1206	803	338	23	0	0	0	0	0	0	11516.	24
22	0	0	0	0	0	0	0	0	93	504	960	1333	1599	1716	1673	1495	1196	807	348	27	0	0	0	0	0	0	11751.	24
23	0	0	0	0	0	0	0	0	93	482	909	1259	1501	1611	1584	1389	1115	727	288	11	0	0	0	0	0	0	10969.	24
24	0	0	0	0	0	0	0	0	79	400	874	1241	1505	1629	1621	1361	998	742	288	20	0	0	0	0	0	0	10759.	24
25	0	0	0	0	0	0	0	0	103%	461	939	1172	1283	1599	1478	1104	885	407	149	23	0	0	0	0	0	0	9602.	24
26	0	0	0	0	0	0	0	0	39%	60%	96	114	128	118	125	120	86%	60%	33%	13%	0	0	0	0	0	0	992.	24
27	0	0	0	0	0	0	0	0	4%	26%	55%	85%	124%	116%	117%	203%	177	111	75	18	0	0	0	0	0	0	1111.	24
28	0	0	0	0	0	0	0	0	37	152	344	313	362	393	454	375	281	203	64	7	0	0	0	0	0	0	2984.	24
AV	0	0	0	0	0	0	0	0	36	206	431	660	817	935	925	802	618	399	149	10	0	0	0	0	0	0	5987.	
HR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 100.

		ATLANTA (GA TECH)												YEAR 1982		MONTH 2												
		DIFFUSE HORIZ. KJ/M2																										
D	HOUR																								TOTL	HR		
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	----	----		
Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	----		
1	0	0	0	0	0	0	0	6	116	193	237	317	325	437	334	583	525	148	1	0	0	0	0	0	0	3223.	24	
2	0	0	0	0	0	0	0	4	48	148	51	76	177	266	256	122	34	29	1	0	0	0	0	0	0	1212.	24	
3	0	0	0	0	0	0	0	4	25	49	135	261	337	307	395	237	200	50	1	0	0	0	0	0	0	2000.	24	
4	0	0	0	0	0	0	0	3	64	245	476	1057%	1153%	615	604	637	396	161	1	0	0	0	0	0	0	5412.	24	
5	0	0	0	0	0	0	0	3	54	176	378	404	449	649	226	239	129	30	1	0	0	0	0	0	0	2737.	24	
6	0	0	0	0	0	0	0	3	80	214	299	863	1269	1270	987	453	310	159	4	0	0	0	0	0	0	5910.	24	
7	0	0	0	0	0	0	0	10	131	217	264	296	293	313	875	830	446	124	3	0	0	0	0	0	0	3802.	24	
8	0	0	0	0	0	0	0	20	236	662	848	941	1176	1063	1071	594	263	136	4	0	0	0	0	0	0	7014.	24	
9	0	0	0	0	0	0	0	3	52	38	254	221	735	313	153	62	119	33	3	0	0	0	0	0	0	1987.	24	
10	0	0	0	0	0	0	0	16	154	240	295\$	350	265	267	275	287	481	184	5	0	0	0	0	0	0	2813.	24	
11	0	0	0	0	0	0	0	5	107	375	440	388	415	372	351	428	329	210	7	0	0	0	0	0	0	3428.	24	
12	0	0	0	0	0	0	0	20	301	482	619	427	685	473	151	255	338	110	2	0	0	0	0	0	0	3863.	24	
13	0	0	0	0	0	0	0	3	46	333	848	1092	1018	480	342	272	200	105	4	0	0	0	0	0	0	4743.	24	
14	0	0	0	0	0	0	0	25	171	239	310	525	558	444	524	504	455	241	13	0	0	0	0	0	0	4010.	24	
15	0	0	0	0	0	0	0	9	83	239	442	393	498	203	285	140	228	81	4	0	0	0	0	0	0	2606.	24	
16	0	0	0	0	0	0	0	36	142	421	490	341	429	343	170	143	115	52	2	0	0	0	0	0	0	2685.	24	
17	0	0	0	0	0	0	0	30	214	445	961	756	620	706	512	812	441	173	15	0	0	0	0	0	0	5684.	24	
18	0	0	0	0	0	0	0	9	84	165	267	503	430	450	476	504	373	158	7	0	0	0	0	0	0	3426.	24	
19	0	0	0	0	0	0	0	7	122	195	740	838	492	430	384	333	234	123	11	0	0	0	0	0	0	3909.	24	
20	0	0	0	0	0	0	0	26	122	181	221	236	254	264	370	490	371	171	11	0	0	0	0	0	0	2717.	24	
21	0	0	0	0	0	0	0	37	153	206	221	237	247	248	236	217	179	111	13	0	0	0	0	0	0	2106.	24	
22	0	0	0	0	0	0	0	30	134	196	236	260	276	276	269	249	198	117	14	0	0	0	0	0	0	2255.	24	
23	0	0	0	0	0	0	0	30	122	186	250	292	328	368	399	399	310	177	19	0	0	0	0	0	0	2878.	24	
24	0	0	0	0	0	0	0	70	234	299	345	347	356	364	789	849	404	184	27	0	0	0	0	0	0	4268.	24	
25	0	0	0	0	0	0	0	66	236	341	1234	1228%	812	638	1063	1001	613	206	13	0	0	0	0	0	0	7450.	24	
26	0	0	0	0	0	0	0	17	77	138	164	198	180	196	187	117%	65%	16%	2%	0	0	0	0	0	0	1358.	24	
27	0	0	0	0	0	0	0	3%	33%	102%	175%	254%	239%	242%	397%	321	192	96	11	0	0	0	0	0	0	2065.	24	
28	0	0	0	0	0	0	0	26	215	559	537	626	680	776	647	484	343	96	6	0	0	0	0	0	0	4993.	24	
AV	0	0	0	0	0	0	0	19	127	260	419	490	525	456	455	413	296	124	7	0	0	0	0	0	0	3591.		
HR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	

-----  
 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

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Table 101.

ATLANTA (GA TECH) YEAR 1982 MONTH 2

LAT. TILTED KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	36	778	1951	2877	3461	3790	3539	3239	1862	714	141	6	0	0	0	0	0	22394.	24	
2	0	0	0	0	0	0	0	21	58	136	58	51	154	242	221	101	50	50	7	0	0	0	0	0	1160.	21	
3	0	0	0	0	0	0	0	22	49	49	108	225	291	262	345	199	166	53	7	0	0	0	0	0	1775.	24	
4	0	0	0	0	0	0	0	23	64	220	436	1256	2135	3454	2803	1738	526	303	8	0	0	0	0	0	12965.	24	
5	0	0	0	0	0	0	0	23	52	152	338	360	385	578	188	212	109	50	9	0	0	0	0	0	2456.	24	
6	0	0	0	0	0	0	0	24	75	196	275	875	1575	1393	2708	2594	1609	475	12	0	0	0	0	0	11811.	24	
7	0	0	0	0	0	0	0	33	879	1945	2753	3385	3679	3618	1845	993	1294	365	11	0	0	0	0	0	20799.	24	
8	0	0	0	0	0	0	0	38	612	1004	1097	1032	1337	1071	1148	544	228	117	12	0	0	0	0	0	8239.	24	
9	0	0	0	0	0	0	0	27	53	52	205	175	662	256	122	58	105	55	13	0	0	0	0	0	1783.	24	
10	0	0	0	0	0	0	0	54	855	1996	2742	3348	3800	3768	3347	2521	1269	208	14	0	0	0	0	0	24061.	24	
11	0	0	0	0	0	0	0	29	100	347	2183	3220	3514	3439	3118	2346	1498	340	25	0	0	0	0	0	20158.	24	
12	0	0	0	0	0	0	0	34	312	463	573	391	619	421	126	227	312	103	16	0	0	0	0	0	3596.	24	
13	0	0	0	0	0	0	0	31	61	315	1710	1326	3080	3616	3392	2736	1817	748	29	0	0	0	0	0	18861.	24	
14	0	0	0	0	0	0	0	88	901	2020	2897	3326	3462	3603	3166	2410	1475	489	20	0	0	0	0	0	23856.	24	
15	0	0	0	0	0	0	0	32	71	209	412	343	435	161	257	116	194	73	18	0	0	0	0	0	2323.	24	
16	0	0	0	0	0	0	0	36	103	354	420	287	400	299	115	113	89	60	19	0	0	0	0	0	2294.	24	
17	0	0	0	0	0	0	0	34	182	404	1559	1623	543	650	641	1149	579	197	20	0	0	0	0	0	7582.	24	
18	0	0	0	0	0	0	0	35	70	142	237	455	384	396	420	462	327	131	19	0	0	0	0	0	3077.	24	
19	0	0	0	0	0	0	0	33	110	169	962	3183	3803	3757	3382	2722	1831	806	58	0	0	0	0	0	20816.	24	
20	0	0	0	0	0	0	0	188	1085	2100	2929	3508	3794	3767	3303	2155	1724	644	22	0	0	0	0	0	25219.	24	
21	0	0	0	0	0	0	0	171	1085	2124	3025	3616	3907	3866	3486	2837	1927	898	78	0	0	0	0	0	27020.	24	
22	0	0	0	0	0	0	0	203	1156	2159	3037	3606	3886	3820	3436	2779	1904	895	83	0	0	0	0	0	26964.	24	
23	0	0	0	0	0	0	0	206	1126	2067	2897	3426	3684	3849	3233	2552	1671	697	49	0	0	0	0	0	25257.	24	
24	0	0	0	0	0	0	0	141	862	1927	2780	3422	3727	3722	2961	2099	1675	698	62	0	0	0	0	0	24076.	24	
25	0	0	0	0	0	0	0	172	980	2045	2242	2654	3492	3348	2232	1663	625	186	34	0	0	0	0	0	19673.	24	
26	0	0	0	0	0	0	0	51	66	113	145	175	177	195	182	127	91	64	34	0	0	0	0	0	1422.	24	
27	0	0	0	0	0	0	0	52	64	101	160	233	220	222	353	285	162	84	35	0	0	0	0	0	1971.	24	
28	0	0	0	0	0	0	0	54	194	519	486	566	627	685	597	422	304	89	36	0	0	0	0	0	4579.	24	
AV	0	0	0	0	0	0	0	68	429	903	1412	1774	2056	2064	1799	1358	867	322	27	0	0	0	0	0	13078.		
HR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

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Table 102.

ATLANTA (GA TECH) YEAR 1982 MONTH 2  
INFRARED 10 KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	106	94	88	87	86	86	85	86	97	100	98	99	98%	105%	110	113%	119	118	115	113	115	116	117	118	2469.	24
2	121	121	124	127	126	126	123	126%	130%	127%	125%	126%	126%	126%	128%	127%	127%	127%	124	125	126%	125	125	126%	3016.	24
3	131%	127%	127%	127	127	131%	132%	131%	133%	134%	134%	135%	136%	135	134	138	136	137	136	136	136	136	132	126	3184.	24
4	129	126	110	107	112	124	124	123	123	122	123	120	113	105	106	104%	114%	114	105	103	102	104	100	100	2712.	24
5	101	102	105	107	113	121	125	129%	135%	136%	138%	138%	136	138%	140%	139%	139%	138%	136	138	136	137	137	137	3099.	24
6	136	137	136	135	134	134	132	129	129%	128%	127%	126%	121	125	106%	106	107	104	97	92	91	89	89	88	2798.	24
7	86	85	84	84	82	81	81	83	96	100	101%	100%	102%	99%	111%	119%	109	105%	103	109	109	96	95	95	2314.	24
8	98	99	102	102	100	98	97	101	109	124%	129	131	131	134	136	139	139	138	137	136	135	123	120	129	2886.	24
9	130	137	135	136	138	139	140	142	146%	143	143	146%	146%	149%	147	142	138	133	128	127	123	118	114	115	3255.	24
10	113	113	111	108	100	88	83	85	97	101	100%	98	95	95	98	101	110%	114	111	113	114	115	115	115	2491.	24
11	114	116	116	117	114	117	120	121	123	126	116	113%	108%	110%	108%	115	117	116	107	104	103	102	101	101	2705.	24
12	101	101	100	102	108	105	104	111	119	129	129	130	130	129	127	127	130%	127	125	124	124	125	124	125	2859.	24
13	124	115	123	125	125	125	123	122	121	121	111	116	104	95	97	97	103	103	95	92	91	91	90	90	2599.	24
14	90	90	90	90	91	90	91	96	109	114	113	112	110	109	105%	114	117	116	111	112	116	118	124	120	2545.	24
15	117	121	126	129	130	129	132	135	139%	139%	141%	139	140	144%	142	142	163%	142	141	142	143	144	143	143	3305.	24
16	143	142	142	142	141	140	141	143%	146%	148%	149%	151%	150	149	150	149	147	143	146	145	142	140	142	142	3474.	24
17	141	143	143	144	144	144	145	145	147	148%	142	138	143	143	142	139	139	139	128	126	118	115	114	114	3284.	24
18	113	114	115	121	131	136	137	136	136%	134	133	132	132	132	142%	134	134	133	130	129	128	128	127	129	3116.	24
19	130	129	128	129	129	129	130	131%	132%	130	128	112	104	112%	109	111	113	114	107	103	102	101	99	97	2808.	24
20	97	95	95	96	95	96	96	102	114	113	113	112	103%	105%	112	119	123	123	118	120	111	108	108	108	2581.	24
21	108	108	108	107	106	107	104	108	118	117	95%	109	97%	98%	98%	112	115	116	107	104	101	100	99	98	2536.	24
22	98	96	95	93	93	91	92	97	108	106	105	101	95	95%	104	104	111	113	105	102	101	102	102	101	2411.	24
23	101	101	101	100	100	100	101	108%	121	121%	123	121	110%	123	126	130	133	133	124	120	118	116	115	115	2763.	24
24	115	116	115	115	116	113	113	115	124	125	125	124	112%	113%	126	131	130	129	122	120	119	120	119	120	2878.	24
25	121	119	117	123	116	118	106	103	111	110	118	115	102%	99%	112	114	121	122	121	108	104	118	121	119	2738.	24
26	120	120	121	121	120	120	119	118	120%	119%	116	115	114	115	114	115%	116%	116%	114%	115	111%	111%	114	114	2800.	24
27	114	114	114	115	115	115	114	115%	118%	119%	123%	124%	121%	118%	119%	122%	122%	121%	118	118%	117	117	117	117	2825.	24
28	118	119	121	120	119	118	119	120	121	122	122	122	123	123	125	125	124	123	122	122	122	122	121	121	2916.	24
AV	115	114	114	114	115	115	115	116	122	124	122	122	118	119	121	122	125	124	119	116	116	116	115	115	2835.	
HR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	872	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 103.

ATLANTA (GA TECH) YEAR 1982 MONTH 2

ULTRAVIOLET KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	0%	16	51	86	111	124	117	99	83	33	8	0%	0	0	0	0	0	0	706.	24
2	0	0	0	0	0	0	0	0%	3%	9	4	8	14	23	21	10	1%	1%	0%	0	0	0	0	0	0	92.	24
3	0	0	0	0	0	0	0	0%	0%	4	11	22	28	24	30	17	13	3	0%	0	0	0	0	0	0	153.	24
4	0	0	0	0	0	0	0	0%	2%	16	32	71	95	120	97	64	25	9	0%	0	0	0	0	0	0	531.	24
5	0	0	0	0	0	0	0	0%	3	12	28	30	36	49	18	19	11	2	0%	0	0	0	0	0	0	207.	24
6	0	0	0	0	0	0	0	0%	4	15	23	63	92	87	104	81	44	12	0%	0	0	0	0	0	0	526.	24
7	0	0	0	0	0	0	0	0%	19	54	88	115	127	122	79	53	39	11	0%	0	0	0	0	0	0	708.	24
8	0	0	0	0	0	0	0	1%	18	40	26*	26*	35*	40*	53*	38*	17	7	0%	0	0	0	0	0	0	99999.	*18
9	0	0	0	0	0	0	0	0%	2%	18	17	54	24	12	4	8	1%	0%	0	0	0	0	0	0	0	142.	24
10	0	0	0	0	0	0	0	1%	20	56	89\$	121	106*	30*	113*	78	42	10	0%	0	0	0	0	0	0	99999.	*21
11	0	0	0	0	0	0	0	0%	6	26	78	107	120	113	100	76	43	13	0	0	0	0	0	0	0	682.	24
12	0	0	0	0	0	0	0	1%	16	30	44	31	48	34	14	21	24	8	0%	0	0	0	0	0	0	270.	24
13	0	0	0	0	0	0	0	0%	2%	21	75	73	119	126	112	82	47	15	0	0	0	0	0	0	0	674.	24
14	0	0	0	0	0	0	0	1%	24	59	93	116	127	126	109	79	47	16	1	0	0	0	0	0	0	799.	24
15	0	0	0	0	0	0	0	0%	5	18	31	30	39	17	24	12	17	5	0%	0	0	0	0	0	0	199.	24
16	0	0	0	0	0	0	0	1	9	28	34	27	34	27	12	11	8	3%	0%	0	0	0	0	0	0	192.	24
17	0	0	0	0	0	0	0	1	12	28	72	76	31	49	36	54	31	8	1	0	0	0	0	0	0	399.	24
18	0	0	0	0	0	0	0	0%	5	12	19	37	32	32	33	34	23	9	0	0	0	0	0	0	0	237.	24
19	0	0	0	0	0	0	0	0%	7	13	56	123	142	139	120	90	54	20	1	0	0	0	0	0	0	765.	24
20	0	0	0	0	0	0	0	3	28	65	100	119\$	138	128\$	118	79	53	20	1	0	0	0	0	0	0	852.	24
21	0	0	0	0	0	0	0	3	29	67	105	133	147	144	124	93	56	21	1	0	0	0	0	0	0	924.	24
22	0	0	0	0	0	0	0	3	30	68	106	135	148	144	125	93	57	22	1	0	0	0	0	0	0	933.	24
23	0	0	0	0	0	0	0	4	31	67	101	123	124*	129*	113	82	48	19	2	0	0	0	0	0	0	869.	\$22
24	0	0	0	0	0	0	0	3	25	60	93	121	136	135	110	76	49	19	2	0	0	0	0	0	0	829.	24
25	0	0	0	0	0	0	0	4	30	69	96	115	142	131	100	76	37	12	1%	0	0	0	0	0	0	814.	24
26	0	0	0	0	0	0	0	0%	4	11	13	17	16	16	15	9%	4%	1%	0%	0	0	0	0	0	0	106.	24
27	0	0	0	0	0	0	0	0%	5%	11%	18%	25%	22%	23%	33%	25	13	5	0%	0	0	0	0	0	0	181.	24
28	0	0	0	0	0	0	0	1%	15	39	40	48	52	59	46	36	24	8	0%	0	0	0	0	0	0	368.	24
AV	0	0	0	0	0	0	0	1	13	34	58\$	75\$	82\$	80\$	69\$	52\$	31	10	0	0	0	0	0	0	0	507.	\$
HR	28	28	28	28	28	28	28	28	28	28	27	27	25	25	26	27	26	28	28	28	28	28	28	28	28	661	

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**FLAGS:**

- \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 104.

ATLANTA (GA TECH) YEAR 1982 MONTH 2

AVAILABLE SUNSHINE %

D A Y	HOUR																								AVG	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	16	85	100	100	100	100	100	100	68	2	0	0	0	0	0	0	0	73.24	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	
AV	0	0	0	0	0	0	0	16	34	37	38	43	46	50	48	45	41	28	11	0	0	0	0	0	39.	
HR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

ATLANTA (GA TECH) YEAR 1982 MONTH 3  
DIRECT NORMAL KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	2	2	2	203%	1593%	2761	2320	2373	1360	37	1470	368%	0	0	0	0	0	0	12491.	24
2	0	0	0	0	0	0	0	963	2435	2953	3229	3377	3438	3430	3344	2870	1493	137	2	0	0	0	0	0	0	27871.	24
3	0	0	0	0	0	0	0	461	100	35	414	1187	661	194	193	49	118	3	2	0	0	0	0	0	0	3419.	24
4	0	0	0	0	0	0	0	97	552	861	1347	2567	1789	2082	2216	468	285	253	2	0	0	0	0	0	0	12518.	24
5	0	0	0	0	0	0	0	3	3	5	585	1935	2234	2225	1160	787	539	4	4	3	0	0	0	0	0	9481.	24
6	0	0	0	0	0	0	0	3	3	5	121	235	3	3	219	7	68	4	2	0	0	0	0	0	0	674.	24
7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	95	475	1528	1487	363	0	0	0	0	0	0	3964.	24
8	0	0	0	0	0	0	0	1034	2437	3005	3307	3431	3439	3421	3309	3069	2725	2020	497	0	0	0	0	0	0	31694.	24
9	0	0	0	0	0	0	0	1145	2356	2745	2807	2834	2154	2004	2121	1026	739	729	2	0	0	0	0	0	0	20662.	24
10	0	0	0	0	0	0	0	7	1107	2188	2241	2285	2447	2134	2304	1541	1461	1388	262	0	0	0	0	0	0	19366.	24
11	0	0	0	0	0	0	0	3	576	1232	1421	1786	488	147	189	614	9	24	3	0	0	0	0	0	0	6492.	24
12	0	0	0	0	0	0	0	356	1337	1897	1909	1920	954	953	834	550	513	121	3	0	0	0	0	0	0	11345.	24
13	0	0	0	0	0	0	0	3	4	185	294	69	5	3	5	3	3	3	2	0	0	0	0	0	0	582.	24
14	0	0	0	0	0	0	0	57	81	196	744	4	3	8	1778	916	15	3	3	0	0	0	0	0	0	3808.	24
15	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	37.	24
16	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	34.	24
17	0	0	0	0	0	0	0	1	3	3	4	3	9	3	3	23	925	835	292	0	0	0	0	0	0	2109.	24
18	0	0	0	0	0	0	0	1	3	119	2033	2517	3001	3033	2245	1980	2813	2379	1565	207	0	0	0	0	0	21895.	24
19	0	0	0	0	0	0	0	1	3	20	1179	964	506	1441	1255	1341	1756	1108	949	205	0	0	0	0	0	10725.	24
20	0	0	0	0	0	0	0	22	422	440	1100	2696	1916	1195	325	658	1290	738	240	27	0	0	0	0	0	11070.	24
21	0	0	0	0	0	0	0	1	368	376	262	862	187	879	460	3	3	9	3	3	0	0	0	0	0	3416.	24
22	0	0	0	0	0	0	0	10	51	357	2685	1902	31	16	641	847	61	3	3	16	0	0	0	0	0	6625.	24
23	0	0	0	0	0	0	0	134%	1851	2762	3102	2761	2913	2762	2506	1552	2341	1270	297	3	0	0	0	0	0	24254.	24
24	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	0	36.	24
25	0	0	0	0	0	0	0	1	3	3	3	3	3	3	1003	734	1115	1962	1018	26	0	0	0	0	0	5876.	24
26	0	0	0	0	0	0	0	219%	2033	2845	3237	3424	3520	3513	3491	3415	3276	2986	2396	957	0	0	0	0	0	35312.	24
27	0	0	0	0	0	0	0	1	2	13	366	1684	2734	3063	3466	3001	2672	2923	2118	910	0	0	0	0	0	22954.	24
28	0	0	0	0	0	0	0	256%	1623	581	1464	1595	1457	2137	3519	3441	3255	1512	3	28	0	0	0	0	0	20872.	24
29	0	0	0	0	0	0	0	1	2	3	2	2	29	4	3	3	3	3	3	0	0	0	0	0	0	60.	24
30	0	0	0	0	0	0	0	1	3	3	49	466%	766%	387%	8	195	554	317	3	8	0	0	0	0	0	2757.	24
31	0	0	0	0	0	0	0	2	3	3	10	3	22	12	1384%	1248%	1139	2478%	1391	31	0	0	0	0	0	7724.	24
AV	0	0	0	0	0	0	0	21	339	598	1013	1254	1311	1252	1232	1232	1090	891	596	137	0	0	0	0	0	10965.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS.  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 106.

ATLANTA (GA TECH) YEAR 1982 MONTH 3  
DIRECT (RG630) KJ/M2

D A Y	HOUR																								T O T L	H R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	2	3	3	111	818	1745	1538	1605	957	33	1228	368%	0	0	0	0	0	8412.	24
2	0	0	0	0	0	0	0	849%	1819	2040	2151	2220	2240	2253	2218	1938	1085	135%	5	0	0	0	0	0	18933.	24
3	0	0	0	0	0	0	0	451%	97	66	313	819	481%	179%	178%	62	128%	9	2	0	0	0	0	0	2785.	24
4	0	0	0	0	0	0	0	50*	534*	632	939	1762	1246	1364	1468	330	216	241%	3	0	0	0	0	0	9049.	22
5	0	0	0	0	0	0	0	4	4	4	453	1386	1553	1542	828	582	411%	5	5	3	0	0	0	0	6777.	24
6	0	0	0	0	0	0	0	4	4	6	80	147	4	5	155	7	62	10	5	0	0	0	0	0	488.	24
7	0	0	0	0	0	0	0	3	3	3	3	3	3	3	66	340	1132	1212	349%	0	0	0	0	0	3120.	24
8	0	0	0	0	0	0	0	883	1697	1943	2099	2187	2209	2241	2221	2125	1973	1622	496%	0	0	0	0	0	21696.	24
9	0	0	0	0	0	0	0	1030%	1760	1890	1870	1865	1422	1337	1440	728	566	602%	3	0	0	0	0	0	14513.	24
10	0	0	0	0	0	0	0	12	836	1514	1498	1494	1583	1403	1545	1060	1074	1147	253%	0	0	0	0	0	13421.	24
11	0	0	0	0	0	0	0	5	450	886	963	1180	339	114	152	466	9	30	3	0	0	0	0	0	4597.	24
12	0	0	0	0	0	0	0	361%	1101	1420	1369*	1318	659	664	590	406	395%	126%	3	0	0	0	0	0	8410.	24
13	0	0	0	0	0	0	0	0	4	5	146	214	51	6	5	6	4	4	3	0	0	0	0	0	452.	24
14	0	0	0	0	0	0	0	1	55	71	131	479	4	4	9	1150	614	18	4	3	0	0	0	0	2545.	24
15	0	0	0	0	0	0	0	1	4	4	4	4	4	4	7	4	4	4	4	3	0	0	0	0	48.	24
16	0	0	0	0	0	0	0	2	13	15	12	11	12	15	7	4	4	4	4	3	0	0	0	0	105.	24
17	0	0	0	0	0	0	0	1	4	4	5	4	7	4	4	4	20	865	859	278%	0	0	0	0	1658.	24
18	0	0	0	0	0	0	0	1	4	81	1413	1671*	1928	1951	1478	1302	1858	1668	1242	621%	0	0	0	0	15218.	24
19	0	0	0	0	0	0	0	1	4	20	883	695	360	990	884	968	1303	857	815%	407%	0	0	0	0	8186.	24
20	0	0	0	0	0	0	0	27	384%	311	716	1705	1207	769	216	436	886	559	225%	43%	0	0	0	0	7484.	24
21	0	0	0	0	0	0	0	1	339%	314	190	605	136	585	311	4	4	13	4	3	0	0	0	0	2510.	24
22	0	0	0	0	0	0	0	10	40	222	1642	1136	19	12	394	521	42	4	4	21	0	0	0	0	4067.	24
23	0	0	0	0	0	0	0	124%	1450	1890	2053	1775	1837	1738	1594	1014	1574	904	223	6	0	0	0	0	16181.	24
24	0	0	0	0	0	0	0	1	4	4	4	4	4	4	14	3	3	3	3	3	0	0	0	0	55.	24
25	0	0	0	0	0	0	0	1	4	4	3	4	3	3	659	504	794	1414	802	29	0	0	0	0	4224.	24
26	0	0	0	0	0	0	0	161%	1255%	1825	2125	2192	2225	2219	2207	2176	2129	2021	1766	837%	0	0	0	0	23138.	24
27	0	0	0	0	0	0	0	1	3	12	242	1072	1731	1916	2182	1912	1750	1998	1573	795%	0	0	0	0	15186.	24
28	0	0	0	0	0	0	0	198%	1059	323	779%	865%	830	1289	2225	2195	2116	1008	4	31	0	0	0	0	12921.	24
29	0	0	0	0	0	0	0	4	8	8	3	4	16	5	3	4	4	4	3	3	0	0	0	0	68.	24
30	0	0	0	0	0	0	0	2	4	4	17	29*	190*	126*	6	103	300	193	3	7	0	0	0	0	99999.	21
31	0	0	0	0	0	0	0	2	3	4	4	4	7	6	226*	446%	538%	1443	931	26	0	0	0	0	3640.	24
AV	0	0	0	0	0	0	0	17	275*	430*	685	841*	858*	833*	786	806	735	827	472	149	0	0	0	0	7513.	s
HR	31	31	31	31	31	31	31	31	30	30	31	30	30	30	31	31	31	31	31	31	31	31	31	31	739	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 107.

		ATLANTA (GA TECH) YEAR 1982 MONTH 3																										
		GLOBAL HORIZ. KJ/M2																										
D	Y	HOUR																								TOTL	HR	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	0	40	292	726	1560	2470	2690	2507	2391	1623	550	477	45	0	0	0	0	0	0	15370.	24
2	0	0	0	0	0	0	0	0	180	824	1569	2210	2663	2901	2880	2601	2054	1188	378	28	0	0	0	0	0	0	19476.	24
3	0	0	0	0	0	0	0	0	223	536	909	1503	2221	1972	1729	1571	1182	800	304	36	0	0	0	0	0	0	12986.	24
4	0	0	0	0	0	0	0	0	122	560	1166	1791	2548	2319	2451	2389	1127	707	288	20	0	0	0	0	0	0	15488.	24
5	0	0	0	0	0	0	0	0	51	230	1050	1945	2453	2576	1940	1522	1195	401	193	23	0	0	0	0	0	0	13579.	24
6	0	0	0	0	0	0	0	0	89	214	416	1377	1485	828	771	1250	487	580	228	6	0	0	0	0	0	0	7732.	24
7	0	0	0	0	0	0	0	0	12	82	293	508	453	611	884	1133	1342	1255	579	70	0	0	0	0	0	0	7219.	24
8	0	0	0	0	0	0	0	0	215	931	1717	2377	2837	3030	2966	2663	2108	1406	620	63	0	0	0	0	0	0	20933.	24
9	0	0	0	0	0	0	0	0	230	927	1673	2236	2715	2762	2627	2440	1554	1119	587	39	0	0	0	0	0	0	18909.	24
10	0	0	0	0	0	0	0	0	132	832	1579	2125	2551	2964	2698	2559	1716	1220	586	65	0	0	0	0	0	0	19027.	24
11	0	0	0	0	0	0	0	0	138	647	1543	1910	2383	2030	1390	1466	1540	456	282	44	0	0	0	0	0	0	13830.	24
12	0	0	0	0	0	0	0	0	1	192	809	1513	1957	2401	2075	2138	1712	1390	910	414	38	0	0	0	0	0	15552.	24
13	0	0	0	0	0	0	0	0	1	119	311	958	1858	1388	959	663	594	527	250	47	9	0	0	0	0	0	7486.	24
14	0	0	0	0	0	0	0	0	2	227	557	1035	1716	1399	1263	1224	2395	1296	585	136	21	0	0	0	0	0	11855.	24
15	0	0	0	0	0	0	0	0	2	35	144	212	251	262	574	1147	690	112	100	40	9	0	0	0	0	0	3577.	24
16	0	0	0	0	0	0	0	0	2	34	145	234	399	256	332	492	793	587	355	184	32	0	0	0	0	0	3846.	24
17	0	0	0	0	0	0	0	0	2	54	177	388	482	940	191	546	431	665	1169	496	79	0	0	0	0	0	5619.	24
18	0	0	0	0	0	0	0	0	4	267	735	1665	2220	2775	2975	2641	2190	2175	1412	616	64	0	0	0	0	0	19740.	24
19	0	0	0	0	0	0	0	0	4	140	614	1503	1860	1690	2324	2204	2045	1986	1097	565	81	0	0	0	0	0	16113.	24
20	0	0	0	0	0	0	0	0	7	271	772	1421	2399	2396	2189	1426	1490	1597	1133	457	59	0	0	0	0	0	15616.	24
21	0	0	0	0	0	0	0	0	5	277	748	1136	2047	1516	2243	1180	193	415	522	83	12	0	0	0	0	0	10378.	24
22	0	0	0	0	0	0	0	0	14	264	685	1888	2434	1491	1477	2155	2166	1254	517	157	38	0	0	0	0	0	14538.	24
23	0	0	0	0	0	0	0	0	16	440	1232	1946	2424	2932	3127	2940	2162	2055	1223	357	80	0	0	0	0	0	20932.	24
24	0	0	0	0	0	0	0	0	4	122	180	501	523	549	575	1208	508	560	451	338	23	0	0	0	0	0	5544.	24
25	0	0	0	0	0	0	0	0	5	84	273	289	263	841	807	1902	1974	1758	1468	653	59	0	0	0	0	0	10376.	24
26	0	0	0	0	0	0	0	0	24	501	1325	2105	2756	3204	3385	3326	2986	2433	1710	866	162	0	0	0	0	0	24782.	24
27	0	0	0	0	0	0	0	0	9	214	662	1399	2530	3163	3312	3336	2912	2307	1745	848	163	0	0	0	0	0	22601.	24
28	0	0	0	0	0	0	0	0	39	584	1006	1784	2469	2820	3260	3401	3043	2461	1422	432	72	0	0	0	0	0	22792.	24
29	0	0	0	0	0	0	0	0	6	96	363	691	1037	1603	1364	1004	762	682	289	180	62	0	0	0	0	0	8137.	24
30	0	0	0	0	0	0	0	0	11	236	601	1342	1994	2550	1823	1096	1527	1527	945	364	90	0	0	0	0	0	14105.	24
31	0	0	0	0	0	0	0	0	7	50	296	911	472	1263	1098	2487	2174	1775	1798	800	86	0	0	0	0	0	13215.	24
AV	0	0	0	0	0	0	0	5	182	571	1147	1659	1943	1937	1915	1766	1403	929	405	54	0	0	0	0	0	0	13915.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:

X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 108.

		ATLANTA (GA TECH) YEAR 1982 MONTH 3																										
		GLOBAL (RG630) KJ/M2																										
D		HOUR																										
A	Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTL	HR	
1	0	0	0	0	0	0	0	0	28	173	429	937	1493	1619	1501	1438	988	331	302	34	0	0	0	0	0	0	9272.	24
2	0	0	0	0	0	0	0	0	137	548	1005	1387	1641	1749	1720	1556	1240	723	231	21	0	0	0	0	0	0	11958.	24
3	0	0	0	0	0	0	0	0	184	349	549	904	1342	1181	1025	940	702	482	193	29	0	0	0	0	0	0	7878.	24
4	0	0	0	0	0	0	0	0	101	385	735	1098	1555	1394	1426	1394	642	419	180	14	0	0	0	0	0	0	9342.	24
5	0	0	0	0	0	0	0	0	49	148	637	1194	1469	1521	1124	877	698	232	123	21	0	0	0	0	0	0	8093.	24
6	0	0	0	0	0	0	0	0	76	146	253	815	866	462	436	730	278	337	137	6	0	0	0	0	0	0	4542.	24
7	0	0	0	0	0	0	0	0	35	88%	192	311	267	350	512	668	814	786	378	58	0	0	0	0	0	0	4458.	24
8	0	0	0	0	0	0	0	0	186%	647	1107	1493	1750	1860	1814	1627	1300	885	400	42	0	0	0	0	0	0	13111.	24
9	0	0	0	0	0	0	0	0	187	630	1059	1388	1658	1682	1583	1476	928	681	367	25	0	0	0	0	0	0	11662.	24
10	0	0	0	0	0	0	0	0	91	544	989	1297	1532	1758	1596	1521	1009	738	365	41	0	0	0	0	0	0	11481.	24
11	0	0	0	0	0	0	0	0	107	420	950	1144	1394	1178	791	827	897	262	173	34	0	0	0	0	0	0	8177.	24
12	0	0	0	0	0	0	0	3	152	543	952	1190	1428	1190	1223	969	790	521	242	23	0	0	0	0	0	0	9226.	24
13	0	0	0	0	0	0	0	2	87	187	554	946	770	531	365	329	289	144	37	7	0	0	0	0	0	0	4249.	24
14	0	0	0	0	0	0	0	3	164	349	619	1014	794	711	686	1383	726	331	83	14	0	0	0	0	0	0	6877.	24
15	0	0	0	0	0	0	0	3	37	95	116	150	167	323	639	367	71	66	48	21	0	0	0	0	0	0	2103.	24
16	0	0	0	0	0	0	0	6	56%	110	155	229	149	185	263	429	326	202	112	27	0	0	0	0	0	0	2249.	24
17	0	0	0	0	0	0	0	4	48	112	218	260	510	88	287	236	375	700	283	50	0	0	0	0	0	0	3172.	24
18	0	0	0	0	0	0	0	7	182	458	1036	1350	1664	1772	1568	1270	1274	843	373	34	0	0	0	0	0	0	11831.	24
19	0	0	0	0	0	0	0	6	96	368	912	1098	975	1328	1251	1169	1161	640	338	51	0	0	0	0	0	0	9392.	24
20	0	0	0	0	0	0	0	8	187	472	846	1417	1382	1238	797	836	903	656	260	39	0	0	0	0	0	0	9038.	24
21	0	0	0	0	0	0	0	6	186	463	663	1216	858	1278	684	116	238	303	62	15	0	0	0	0	0	0	8087.	24
22	0	0	0	0	0	0	0	17	181	426	1165	1469	860	847	1263	1271	730	307	107	34	0	0	0	0	0	0	8677.	24
23	0	0	0	0	0	0	0	21	336	829	1250	1511	1789	1899	1777	1303	1255	757	223	56	0	0	0	0	0	0	13006.	24
24	0	0	0	0	0	0	0	13	102	127	297	299	307	316	688	306	329	274	215	31	0	0	0	0	0	0	3304.	24
25	0	0	0	0	0	0	0	16%	84	187	192	178	483	461	1121	1158	1039	883	400	38	0	0	0	0	0	0	6240.	24
26	0	0	0	0	0	0	0	27	372	876	1316	1694	1944	2042	2002	1797	1473	1059	561	125	0	0	0	0	0	0	15286.	24
27	0	0	0	0	0	0	0	27%	177%	435	875	1560	1928	2004	2012	1759	1405	1085	546	116	0	0	0	0	0	0	13929.	24
28	0	0	0	0	0	0	0	44	434%	652	1105	1515	1705	1972	2059	1833	1490	864	268	62	0	0	0	0	0	0	14005.	24
29	0	0	0	0	0	0	0	31%	124%	268%	424	599	917	776	565	431	395	182	129	62	0	0	0	0	0	0	4902.	24
30	0	0	0	0	0	0	0	16	152	357	787	1161	1464	1030	598	847	847	530	205	53	0	0	0	0	0	0	8045.	24
31	0	0	0	0	0	0	0	11	47	172	504	254	694	601	1426	1232	1008	1049	480	51	0	0	0	0	0	0	7527.	24
AY	0	0	0	0	0	0	0	9	141	373	706	1002	1153	1140	1123	1035	826	557	252	40	0	0	0	0	0	0	8359.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 109.

ATLANTA (GA TECH) YEAR 1982 MONTH 3

DIFFUSE HORIZ. KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	26	267	687	1315%	1202%	573%	731%	732	798	528	183	20	0	0	0	0	0	7064.	24
2	0	0	0	0	0	0	0	45	150	211	261	273	288	299	299	403	530	335	36	0	0	0	0	0	3131.	24
3	0	0	0	0	0	0	0	171	476	836	1156	1275	1371	1471	1352	1099	714	313	45	0	0	0	0	0	10279.	24
4	0	0	0	0	0	0	0	103	404	700	913	690	919	836	812	641	601	265	34	0	0	0	0	0	7119.	24
5	0	0	0	0	0	0	0	57	232	725	713	806	831	1010	935	845	424	215	33	0	0	0	0	0	6825.	24
6	0	0	0	0	0	0	0	90	211	407	1245	1280	620	761	1056	492	546	241	8	0	0	0	0	0	7156.	24
7	0	0	0	0	0	0	0	15	93	281	468	426	580	837	1013	1000	593	222	34	0	0	0	0	0	5560.	24
8	0	0	0	0	0	0	0	74	191	250	280	299	321	324	316	293	230	139	26	0	0	0	0	0	2742.	24
9	0	0	0	0	0	0	0	82	215	336	453	608	1011	1012	888	891	777	384	52	0	0	0	0	0	6710.	24
10	0	0	0	0	0	0	0	132	443	475	661	806	979	981	880	751	584	261	53	0	0	0	0	0	7006.	24
11	0	0	0	0	0	0	0	146	418	694	936	996	1557	1234	1277	1120	471	294	61	0	0	0	0	0	9404.	24
12	0	0	0	0	0	0	0	1	139	372	549	741%	933	1265	1340	1077	1025	869	401	59	0	0	0	0	8571.	24
13	0	0	0	0	0	0	0	2	131	318	919	1529	1372%	959	672	606	540	272	75	16	0	0	0	0	7409.	24
14	0	0	0	0	0	0	0	1	226	547	967	1263	1383	1255	1222	1032%	707	609	161	37	0	0	0	0	9410.	24
15	0	0	0	0	0	0	0	1	39	141	209	254	275	574	1118	682	142	144	80	24	0	0	0	0	3684.	24
16	0	0	0	0	0	0	0	4	67	173	258	407	262	330	480	769	576	355	189	36	0	0	0	0	3905.	24
17	0	0	0	0	0	0	0	1	63	182	391	464	929	204	578	455	676%	760%	270	63	0	0	0	0	5059.	24
18	0	0	0	0	0	0	0	6	271	705	557	499%	440	486	814	729	429	325	222	60	0	0	0	0	5543.	24
19	0	0	0	0	0	0	0	6	151	600	833	1189	1255	1112	1160	1040	891	588	346	91	0	0	0	0	9273.	24
20	0	0	0	0	0	0	0	10	233	593	764	549	885	1168	1150	971	792	775	432	88	0	0	0	0	8429.	24
21	0	0	0	0	0	0	0	9	219	612	949	1373	1334	1452	820	223	461	511	95	18	0	0	0	0	8075.	24
22	0	0	0	0	0	0	0	8	224	493	395	1080	1411	1412	1548	1437	1175	524	174	49	0	0	0	0	9929.	24
23	0	0	0	0	0	0	0	7	113	201	253	503	590	761	845	953	563	616	272	93	0	0	0	0	5812.	24
24	0	0	0	0	0	0	0	3	122	180	489	512	536%	560	1163	499	549	450	346	31	0	0	0	0	5439.	24
25	0	0	0	0	0	0	0	3	67	269	285	264	621	797	1046	1352	1044	531	353	74	0	0	0	0	6927.	24
26	0	0	0	0	0	0	0	10	120	213	264	310	332	366	369	341	309	262	237	100	0	0	0	0	3234.	24
27	0	0	0	0	0	0	0	5	273	741	1240	1320	970	727	399	572	545	318	246	64	0	0	0	0	7421.	24
28	0	0	0	0	0	0	0	19	256	695	858	1238	1461	1295	391	353	328	597	431	78	0	0	0	0	8021.	24
29	0	0	0	0	0	0	0	2	92	342	651	991	1508	1315	977	744	866	290	185	67	0	0	0	0	7833.	24
30	0	0	0	0	0	0	0	13	232	585	1235	1570%	1828%	1451%	1074	1345	1110	767	384	112	0	0	0	0	11707.	24
31	0	0	0	0	0	0	0	8	63	302	677	473	1202	1059	1277%	1164	1028	582	396	111	0	0	0	0	8540.	24
AV	0	0	0	0	0	0	0	4	131	367	605	805	917	897	901	836	713	514	263	54	0	0	0	0	7007.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:

- % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 110.

		ATLANTA (GA TECH)												YEAR 1982		MONTH 3											
		LAT. TILTED KJ/M2																									
D A Y	HOUR																								T O T A L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	60	262	669	1783	3251	3363	3366	3059	1958	506	717	97	0	0	0	0	0	19381	24	
2	0	0	0	0	0	0	0	291	1215	2158	3045	3574	3866	3831	3469	2723	1513	424	47	0	0	0	0	0	26156	24	
3	0	0	0	0	0	0	0	277	550	905	1659	2666	2248	1827	1642	1202	828	285	47	0	0	0	0	0	14135	24	
4	0	0	0	0	0	0	0	137	639	1358	2176	3313	2948	3138	3045	1275	746	313	47	0	0	0	0	0	19136	24	
5	0	0	0	0	0	0	0	76	203	1242	2552	3171	3301	2360	1750	1320	330	168	46%	0	0	0	0	0	16520	24	
6	0	0	0	0	0	0	0	97	180	368	1389	1523	710	651	1296	419	578	213	47	0	0	0	0	0	7471	24	
7	0	0	0	0	0	0	0	70	87	253	435	385	521	762	1104	1423	1536	781	114	0	0	0	0	0	7472	24	
8	0	0	0	0	0	0	0	314	1262	2241	3099	3659	3898	3820	3433	2739	1835	856	117	0	0	0	0	0	27282	24	
9	0	0	0	0	0	0	0	326	1241	2152	2901	3451	3419	3259	3025	1846	1254	677	57	0	0	0	0	0	23608	24	
10	0	0	0	0	0	0	0	152	1024	1998	2708	3206	3587	3248	3129	2060	1470	761	104	0	0	0	0	0	23448	24	
11	0	0	0	0	0	0	0	138	739	1756	2316	2902	2189	1352	1485	1704	453	262	58	0	0	0	0	0	15354	24	
12	0	0	0	0	0	0	5	232	1001	1885	2420	2954	2367	2399	1948	1490	968	409	56	0	0	0	0	0	18135	24	
13	0	0	0	0	0	0	8	120	283	942	1677	1348	909	608	532	443	216	66	48	0	0	0	0	0	7199	24	
14	0	0	0	0	0	0	9	222	549	1051	1875	1303	1120	1156	2892	1486	519	121	52	0	0	0	0	0	12354	24	
15	0	0	0	0	0	0	10	63	115	173	209	225	500	1009	565	109	107	69	49	0	0	0	0	0	3205	24	
16	0	0	0	0	0	0	11	65	124	198	338	207	272	417	672	496	299	150	54	0	0	0	0	0	3304	24	
17	0	0	0	0	0	0	12	72	155	346	419	889	178	436	379	609	1287	581	113	0	0	0	0	0	5458	24	
18	0	0	0	0	0	0	14	264	752	1999	2708	3417	3654	3167	2621	2675	1718	767	99	0	0	0	0	0	23856	24	
19	0	0	0	0	0	0	15	122	563	1750	2095	1840	2710	2511	2343	2284	1245	844	105	0	0	0	0	0	18228	24	
20	0	0	0	0	0	0	16	274	798	1561	2868	2788	2481	1478	1608	1824	1235	453	70	0	0	0	0	0	17455	24	
21	0	0	0	0	0	0	19	286	746	1136	2203	1505	2430	1331	154	358	468	85	54	0	0	0	0	0	10774	24	
22	0	0	0	0	0	0	20	222	683	2230	2799	1386	1351	2380	2393	1184	430	124	57	0	0	0	0	0	15260	24	
23	0	0	0	0	0	0	24	487	1418	2302	2836	3418	3657	3417	2491	2434	1373	356	86	0	0	0	0	0	24300	24	
24	0	0	0	0	0	0	23	118	150	435	440	484	528	1082	408	460	389	301	57	0	0	0	0	0	4874	24	
25	0	0	0	0	0	0	24	87	234	241	228	732	694	2065	2105	1943	1646	691	84	0	0	0	0	0	10774	24	
26	0	0	0	0	0	0	29	520	1467	2407	3201	3739	3965	3891	3481	2818	1937	959	176	0	0	0	0	0	28592	24	
27	0	0	0	0	0	0	27	181	594	1387	2732	3584	3843	3890	3359	2621	1950	907	173	0	0	0	0	0	25245	24	
28	0	0	0	0	0	0	38	573	978	1925	2683	3125	3625	3920	3510	2818	1587	385	81	0	0	0	0	0	25248	24	
29	0	0	0	0	0	0	30	105	332	594	893	1449	1195	870	659	579	251	155	72	0	0	0	0	0	7182	24	
30	0	0	0	0	0	0	31	206	532	1307	1983	2702	1843	984	1473	1539	929	328	101	0	0	0	0	0	13957	24	
31	0	0	0	0	0	0	33	66	251	800	414	1143	988	2704	2381	1910	1928	810	83	0	0	0	0	0	13512	24	
AV	0	0	0	0	0	0	13	201	617	1283	1906	2237	2214	2172	2013	1573	1017	445	79	0	0	0	0	0	15769		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 # - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 111.

ATLANTA (GA TECH) YEAR 1982 MONTH 3

INFRARED 10 KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	121	121	120	120	120	119	120	120	121	122	121	114	103	116%	109	122	126	111	105	100	99	99	98	102%	2728.	24
2	97	96	94	94	94	94	95	102%	113	113	108%	114	114%	118%	111%	115	121	122	122	121	114	108	108	109	2595.	24
3	105	105	103	107	102	107	104	118	123	127	128	124	125	131	132	133	132	130	126	124	127	128	127	126	2993.	24
4	118	114	111	110	115	121	125	117	124	131	130	125%	129%	129%	135%	143%	148	144	140	143	146	139	133	136	3107.	24
5	130	129	129	129	127	139	137	144	144	138	137%	132%	135%	142	145	146	149	140	135	135	137	135	138	137	3289.	24
6	135	131	135	136	138	140	140	137	143	143	146	148	147	146	146	149	145	143	141	134	134	133	132	136	3357.	24
7	138	135	130	130	129	126	124	123	124%	123%	122	122	121	122	120	118	106	101	94	90	88	86	85	81	2738.	24
8	81	80	80	80	80	80	81	93	103	104	102	100%	99%	100%	103%	102	108	112%	105	101	101	100	99	98	2292.	24
9	97	96	96	96	94	95	96	107	117	119	116	120%	123%	123%	117	124	126	124	119	114	122	123	123	123	2710.	24
10	116	120	115	106	109	114	108	115	123	125	126	121	121%	123%	126%	128	132	129	123	123	124	120	117	116	2879.	24
11	115	117	116	118	123	125	125	127	130	136	136	132	142	142	143	138	148%	144	135	134	131	127	125	126	3137.	24
12	129	122	121	120	120	120	124	128	137	140	138%	135%	146%	142%	146	148	147	144	137	135	134	133%	132%	135	3209.	22
13	135	133	131	131	127	128	128	143	147	146	147	152	155	156	157	158	157	157	152	150	148	141	135	141	3453.	24
14	142	130	125	125	125	127	127	128	136	141	145	154	156	156	136	145	153	156	152	143	147	145	141	130	3365.	24
15	128	123	131	134	139	139	138	138	140	140	142	144%	145%	144%	144	142	139	141%	137	135	136	137	136	135	3309.	24
16	136	136	136	136	136	135	134	135	136	136%	136%	136%	137	138	139	139	139	139	137	136	136	135	135	135	3271.	24
17	135	135	138%	142%	140%	144%	146%	149%	152%	152%	156	156	157	149	150	148	145	141	137	133	133	134	133	131	3438.	24
18	130	129	130	137	138	139	140	143	143	142%	141%	139%	141%	147%	146	144	148	149	143	140	138	135	134	133	3349.	24
19	132	131	132	139	147	148	151	152	150	149	153	156	146	154	149	154	154	148	141	138	136	134	133	133	3482.	24
20	132	130	135	134	130	127	127	140	146	147	144	141%	148	157	147	148	152	151	145	143	138	137	135	140	3373.	24
21	135	139	136	133	133	137	135	139	147	148	150	152	156%	156	151	150	144	143	137	134	133	134	133	131	3386.	24
22	130	128	120	123	119	122	120	123	126	120	122	134	135	124	124	133	136	137	131	119	114	115	108	104	2966.	24
23	101	99	97	96	95	93	95	109	113	117%	117	112%	113%	118%	122	122	130	133	129	132	134	124	125	132	2773.	21
24	133	134	134	134	134	134	135	137	139	138	141	140%	139	139	144	143	144	144	143	141	141	141	140	140	3331.	24
25	140	140	140	140	140	140	141	142	144	144	144	145	146	130	136	136	132	135	136	137	139	141	136	124	3329.	24
26	122	124	120	104	96	87	88	102	105	104	99	95%	93%	93%	97%	100	103	107	102	96	94	91	90	89	2403.	24
27	90	95	100	100	100	103	106	109	111	112	107	101%	99%	90%	100%	99	100	104	99	92	90	89	88	88	2373.	24
28	88	88	87	88	85	85	88	104	107	104	105	102	99%	92%	116%	99	110	121	123	121	115	117	118	123	2485.	24
29	121	124	125	125	124	122	124	129%	130%	130	131	132	135	134	134	135	135	136	131	132	132	130	127	125	3103.	24
30	130	132	135	134	133	132	131	136	139	141	143	139	145%	150	148	143	147	149	147	136	136	139	133	132	3330.	24
31	131	133	134	135	134	134	140	145	145	145	149	147	150	139	144%	146	140	144	138	143	142	142	134	134	3368.	24
AV	122	121	121	120	120	121	122	127	131	132	132	132%	133%	133%	133	134	135	135	131	128	127	125%	123%	123	3060.	8
HR	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	30	30	31	739	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

811

ATLANTA (GA TECH) YEAR 1982 MONTH 3

ULTRAVIOLET KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	1%	17	45	89	133	146	137	123	78	36	25	2	0	0	0	0	0	831.	24	
2	0	0	0	0	0	0	0	6	36	74	111	137	150	149	131	99	57	21	2	0	0	0	0	0	972.	24	
3	0	0	0	0	0	0	0	5	27	50	83	118	107	96	86	66	43	17	2	0	0	0	0	0	700.	24	
4	0	0	0	0	0	0	0	5	26	81	94	128	120	135	124	69	40	17	3	0	0	0	0	0	821.	24	
5	0	0	0	0	0	0	0	3	16	60	99	126	133	108	87	64	26	12	2	0	0	0	0	0	735.	24	
6	0	0	0	0	0	0	0	5	14	29	82	88	57	52	72	33	35	16	0%	0	0	0	0	0	483.	24	
7	0	0	0	0	0	0	0	0%	6	22	35	32	44	61	71	75	59	27	3	0	0	0	0	0	435.	24	
8	0	0	0	0	0	0	0	8%	42	84	124	153	163	156	135	99	62	26	3	0	0	0	0	0	1054.	24	
9	0	0	0	0	0	0	0	9	41	80	114	142	143	134	120	80	54	26	3	0	0	0	0	0	946.	24	
10	0	0	0	0	0	0	0	8	38	76	108	134	155	141	127	88	57	27	4	0	0	0	0	0	962.	24	
11	0	0	0	0	0	0	0	8	36	77	101	130	113	83	88	83	29	17	3	0	0	0	0	0	767.	24	
12	0	0	0	0	0	0	0	0%	10	40	72	98	123	114	114	96	76	50	24	4	0	0	0	0	821.	24	
13	0	0	0	0	0	0	0	0%	6	20	57	97	91	64	46	40	38	18	5	1	0	0	0	0	483.	24	
14	0	0	0	0	0	0	0	0%	11	33	60	96	84	79	76	125	76	36	10	1%	0	0	0	0	690.	24	
15	0	0	0	0	0	0	0	0%	1%	10	15	19	21	43	77	51	12	10	4	1%	0	0	0	0	263.	24	
16	0	0	0	0	0	0	0	0	3	12	19	30	20	28	38	55	40	24	12	1%	0	0	0	0	279.	24	
17	0	0	0	0	0	0	0	0%	3%	11	25	33	62	16	42	33	46	60	28	5	0	0	0	0	364.	24	
18	0	0	0	0	0	0	0	0%	13	39	84	111	137	143	124	113	102	62	28	5	0	0	0	0	962.	24	
19	0	0	0	0	0	0	0	0%	7	35	77	98	92	126	119	106	92	55	28	5	0	0	0	0	841.	24	
20	0	0	0	0	0	0	0	0	13	41	77	125	132	128	86	89	88	58	27	5	0	0	0	0	868.	24	
21	0	0	0	0	0	0	0	0	15	38	64	103	90	123	61	16	30	34	6	0%	0	0	0	0	582.	24	
22	0	0	0	0	0	0	0	0	13	39	96	130	96	95	127	122	76	34	11	2%	0	0	0	0	840.	24	
23	0	0	0	0	0	0	0	0	18	58	95	125	154	161	147	109	94	55	20	5	0	0	0	0	1040.	24	
24	0	0	0	0	0	0	0	0%	7%	12	34	37	39	42	80	36	38	30	20	2%	0	0	0	0	376.	24	
25	0	0	0	0	0	0	0	0%	5	18	19	18	59	54	107	106	88	67	31	6	0	0	0	0	576.	24	
26	0	0	0	0	0	0	0	1	21	61	106	147	176	187	182	159	124	80	37	7	0	0	0	0	1288.	24	
27	0	0	0	0	0	0	0	0%	12	39	80	138	174	186	184	157	119	81	38	7	0	0	0	0	1218.	24	
28	0	0	0	0	0	0	0	1	22	52	99	134	160	180	184	161	124	74	28	5	0	0	0	0	1223.	24	
29	0	0	0	0	0	0	0	0%	4%	25	46	71	105	92	71	56	49	22	13	4	0	0	0	0	558.	24	
30	0	0	0	0	0	0	0	1	15	37	81	113	146	109	71	93	91	55	23	6	0	0	0	0	841.	24	
31	0	0	0	0	0	0	0	0%	3	20	58	35	86	75	145	120	95	81	36	8	0	0	0	0	764.	24	
AV	0	0	0	0	0	0	0	8	30	62	90	109	109	107	97	75	48	21	3	0	0	0	0	0	761.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 113.

		ATLANTA (GA TECH) YEAR 1982 MONTH 3																										
		AVAILABLE SUNSHINE %																										
D		HOUR																								AVG	HR	
A	Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	----	---	
1	0	0	0	0	0	0	0	0	0	0	0	4	100	99	98	82	53	2	84	57	0	0	0	0	0	49.24	24	
2	0	0	0	0	0	0	0	0	78	100	100	100	100	100	100	100	100	97	6	0	0	0	0	0	0	85.24	24	
3	0	0	0	0	0	0	0	0	38	0	0	22	63	41	0	1	0	1	0	0	0	0	0	0	0	14.24	24	
4	0	0	0	0	0	0	0	0	0	43	40	56	99	73	76	80	22	16	20	0	0	0	0	0	0	46.24	24	
5	0	0	0	0	0	0	0	0	0	0	37	95	100	92	53	52	38	0	0	0	0	0	0	0	0	41.24	24	
6	0	0	0	0	0	0	0	0	0	0	0	6	18	0	0	11	0	4	0	0	0	0	0	0	0	4.24	24	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	22	69	89	47	0	0	0	0	0	19.24	24	
8	0	0	0	0	0	0	0	0	76	100	100	100	100	100	100	100	100	100	100	59	0	0	0	0	0	96.24	24	
9	0	0	0	0	0	0	0	0	78	100	100	100	100	99	100	100	80	65	48	0	0	0	0	0	0	84.24	24	
10	0	0	0	0	0	0	0	0	0	62	99	98	100	100	94	64	77	92	29	0	0	0	0	0	0	77.24	24	
11	0	0	0	0	0	0	0	0	0	41	68	83	82	33	10	5	40	1	2	0	0	0	0	0	0	32.24	24	
12	0	0	0	0	0	0	0	0	18	100	100	94\$	87	51	47	42	33	28	5	0	0	0	0	0	0	48.24	24	
13	0	0	0	0	0	0	0	0	0	12	19	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3.24	24	
14	0	0	0	0	0	0	0	0	0	10	50	0	0	0	0	78	39	0	0	0	0	0	0	0	0	15.24	24	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	24	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	24	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	52	58	37	0	0	0	0	0	12.24	24	
18	0	0	0	0	0	0	0	0	2	92	96\$	100	100	82	75	100	100	100	9	0	0	0	0	0	0	70.24	24	
19	0	0	0	0	0	0	0	0	0	75	50	27	66	58	64	81	66	87	2	0	0	0	0	0	0	49.24	24	
20	0	0	0	0	0	0	0	0	29	22	44	99	72	48	15	31	62	45	19	0	0	0	0	0	0	41.24	24	
21	0	0	0	0	0	0	0	0	27	34	12	47	12	48	25	0	0	0	0	0	0	0	0	0	0	17.24	24	
22	0	0	0	0	0	0	0	0	3	19	99	75	2	0	51	52	1	0	0	0	0	0	0	0	0	25.24	24	
23	0	0	0	0	0	0	31	100	100	100	100	100	100	100	100	75	98	85	14	0	0	0	0	0	0	80.24	24	
24	0	0	0	0	0	0	0	0	0	0	0	0	0\$	0	0	0	0	0	0	0	0	0	0	0	0	0.24	24	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	36	64	99	65	0	0	0	0	0	0	25.24	24	
26	0	0	0	0	0	0	51	100	100	100	100	100	100	100	100	100	100	100	100	77	0	0	0	0	0	97.24	24	
27	0	0	0	0	0	0	0	0	0	17	86	100	100	100	100	100	100	100	100	70	0	0	0	0	0	72.24	24	
28	0	0	0	0	0	0	53	87	34	82	69	78	97	100	100	100	100	49	0	0	0	0	0	0	0	67.24	24	
29	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	24	
30	0	0	0	0	0	0	0	0	0	1	14%	35%	18\$	0	8	26	15	0	0	0	0	0	0	0	0	9.24	24	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	58%	51%	48	100	73	0	0	0	0	0	0	0	27.24	24	
AV	0	0	0	0	0	0	10	20	28	42	48	53	48	45	47	45	40	34	12	0	0	0	0	0	0	39.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 114.

ATLANTA (GA TECH) YEAR 1982 MONTH 4

DIRECT NORMAL KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	18	667	2088	2589	2611	2814	2954	3221	3231	3065	2789	1917	488	0	0	0	0	0	28454.	24	
2	0	0	0	0	0	0	2	3	3	3	3	3	3	3	18	3	10	11	5	0	0	0	0	0	69.	24	
3	0	0	0	0	0	0	2	7	271	1349	2260	2543	2657	3007	3056	3083	2980	2405	1224	0	0	0	0	0	24845.	24	
4	0	0	0	0	0	0	511	1982	1734	1849	2999	3057	1736	1282	973	409	72	3	3	0	0	0	0	0	16609.	24	
5	0	0	0	0	0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	38.	24	
6	0	0	0	0	0	0	539	2153	2862	3239	3429	3540	3560	3506	3462	3333	2998	2456	1177	0	0	0	0	0	36253.	24	
7	0	0	0	0	0	0	625	2241	2913	3219	3344	3396	3244	3009	2965	1024	852	67	3	0	0	0	0	0	26903.	24	
8	0	0	0	0	0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	36.	24	
9	0	0	0	0	0	0	139	700	2478	3133	3262	3367	3446	3366	3196	3026	2703	939	281	0	0	0	0	0	30036.	24	
10	0	0	0	0	0	0	23	44	6	165	1568	2748	3355	2099	297	1435	549	124	3	0	0	0	0	0	12417.	24	
11	0	0	0	0	0	0	137	1081	1900	2521	2835	3015	3241	3261	3169	2995	2603	1974	849	5	0	0	0	0	29587.	24	
12	0	0	0	0	0	0	201	1476	2203	1824	3061	3135	3321	3195	3178	2410	1619	1424	711	0	0	0	0	0	27758.	24	
13	0	0	0	0	0	0	206	113	6	3	71	1909	73	3	3	1241	1369	650	4	0	0	0	0	0	5652.	24	
14	0	0	0	0	0	0	2	3	4	3	3	3	3	3	151	667	1249	1147	328	0	0	0	0	0	3567.	24	
15	0	0	0	0	0	0	3	12	267	1145	1634	89	1643	566	3	3	7	3	3	0	0	0	0	0	5378.	24	
16	0	0	0	0	0	0	3	3	3	8	4	39	18	13	83	148	598	604	55	0	0	0	0	0	1578.	24	
17	0	0	0	0	0	0	3	3	6	3	3	3	3	3	3	74	154	3	3	0	0	0	0	0	262.	24	
18	0	0	0	0	0	0	579	1882	2610	3103	3357	3417	3428	3380	1902	1363	984	5	71	0	0	0	0	0	26080.	24	
19	0	0	0	0	0	0	3	3	3	3	3	3	3	7	13	3	3	3	3	1	0	0	0	0	53.	24	
20	0	0	0	0	0	0	3	3	3	3	3	3	3	62	370	278	292	768	3	1	0	0	0	0	1793.	24	
21	0	0	0	0	0	0	3	3	602	2324	2943	3073	2702	2360	686	44	3	19	13	1	0	0	0	0	14777.	24	
22	0	0	0	0	0	0	28	15	3	8	3	139	758	482	18	81	84	623	639	1	0	0	0	0	2881.	24	
23	0	0	0	0	0	0	923	2396	2938	3224	3381	3441	3500	3440	3260	3134	1476	979	70	1	0	0	0	0	32162.	24	
24	0	0	0	0	0	0	794	2205	2912	3211	2957	3440	3322	3123	3096	1174	57	4	23	1	0	0	0	0	26320.	24	
25	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	39.	24	
26	0	0	0	0	0	0	367	3	23	225	2307	713	240	298	1857	1356	1027	3	3	1	0	0	0	0	8423.	24	
27	0	0	0	0	0	0	3	3	3	19	351	245	912	909	196	2233	1862	1560	1083	11	0	0	0	0	9390.	24	
28	0	0	0	0	0	0	414	1207	1771	2038	2069	1404	1152	1043	373	300	81	6	518	36	0	0	0	0	12412.	24	
29	0	0	0	0	0	0	3	3	60	63	795	1583	1271	863	658	581	695	574	340	1	0	0	0	0	7489.	24	
30	0	0	0	0	0	3	658	1580	2447	2825	3069	2918	3006	3219	2982	2649	1333	1899	1289	79	0	0	0	0	29955.	24	
AV	0	0	0	0	0	0	207	660	1004	1270	1611	1668	1652	1524	1307	1204	949	673	307	5	0	0	0	0	14041.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS.  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 % - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 115.

ATLANTA (GA TECH) YEAR 1982 MONTH 4

DIRECT (RG630) KJ/M2

DAY	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	5	24*	1558*	1725	1714	1800	1874	2023	2042	1980	1869	1394	430	0	0	0	0	0	19159.	\$22	
2	0	0	0	0	0	0	2	4	4	4	4	3	3	3	15	4	8	10	9	0	0	0	0	0	0	73.	24
3	0	0	0	0	0	0	2	7	158	781	1328	1497	1587	1842	1905	1957	1960	1687	1009	0	0	0	0	0	0	15721.	24
4	0	0	0	0	0	0	448%	1434	1096	1118	1839	1861	1047	800	612	267	57	3	4	0	0	0	0	0	0	10586.	24
5	0	0	0	0	0	0	2	4	4	4	4	4	4	4	4	4	7	5	4	0	0	0	0	0	0	53.	24
6	0	0	0	0	0	0	442%	1575	1953	2111	2181	2227	2224	2189	2183	2133	1979	1745	988%	0	0	0	0	0	0	23931.	24
7	0	0	0	0	0	0	557%	1671	1977	2088	2124	2145	2036	1897	1894	663	592	58	4	0	0	0	0	0	0	17705.	24
8	0	0	0	0	0	0	3	4	4	6	4	4	9	14	5	3	3	3	4	0	0	0	0	0	0	66.	24
9	0	0	0	0	0	0	120	498	1641	1998	2045	2082	2133	2093	2010	1950	1844	708	252%	0	0	0	0	0	0	19376.	24
10	0	0	0	0	0	0	21	36	5	90	965	1745	2125	1320	187	945	374	101	4	0	0	0	0	0	0	7917.	24
11	0	0	0	0	0	0	131	853	1352	1689	1854	1940	2059	2073	2029	1956	1779	1465	739%	7	0	0	0	0	0	19927.	24
12	0	0	0	0	0	0	167	1060	1478	1158	1924	1959	2077	1997	2005	1542	1072	1025	576	0	0	0	0	0	0	18039.	24
13	0	0	0	0	0	0	198%	98	6	4	46	1246	47	3	3	848	963	502	5	0	0	0	0	0	0	3969.	24
14	0	0	0	0	0	0	3	4	4	3	3	4	4	4	135	484	961	928	304%	0	0	0	0	0	0	2842.	24
15	0	0	0	0	0	0	5	11	209	841	1159	62	1086	375	3	3	7	3	3	0	0	0	0	0	0	3769.	24
16	0	0	0	0	0	0	3	4	4	7	4	26	13	10	60	110	444	487	58	1	0	0	0	0	0	1230.	24
17	0	0	0	0	0	0	3	3	5	4	3	4	4	4	4	40	89	4	3	1	0	0	0	0	0	170.	24
18	0	0	0	0	0	0	22*	9999*	9999*	9999*	9999*	9999*	1245*	1888*	1211	877	653	8	3	1	0	0	0	0	0	99999.*	16
19	0	0	0	0	0	0	4	4	4	4	4	4	4	6	11	6	4	4	4	1	0	0	0	0	0	61.	24
20	0	0	0	0	0	0	4	4	4	4	3	4	3	37	221	184	193	521	3	1	0	0	0	0	0	1185.	24
21	0	0	0	0	0	0	4	4	359	1383	1762	1857	1666	1459	430	33	4	19	17	1	0	0	0	0	0	8997.	24
22	0	0	0	0	0	0	32	15	4	7	4	82	455	288	13	54	59	462	531	1	0	0	0	0	0	2007.	24
23	0	0	0	0	0	0	801%	1772	2023	2130	2192	2227	2262	2224	2124	2077	1014	727	70	1	0	0	0	0	0	21644.	24
24	0	0	0	0	0	0	691	1610	1960	2082	1881	2168	2093	2001	2015	795	44	5	29	1	0	0	0	0	0	17363.	24
25	0	0	0	0	0	0	4	4	4	4	4	3	4	4	4	4	4	4	4	1	0	0	0	0	0	48.	24
26	0	0	0	0	0	0	2*	4	13	134	1462	457	162	201	1198	890	697	3	3	1	0	0	0	0	0	5227.	24
27	0	0	0	0	0	0	4	4	4	13	227	169	618	608	125	1476	1268	1105	899%	13	0	0	0	0	0	6531.	24
28	0	0	0	0	0	0	386%	999	1345	1458	1426	952	772	702	254	206	65	7	479%	39	0	0	0	0	0	9091.	24
29	0	0	0	0	0	1	4	3	48	50	544	1034	818	565	438	398	492	462	305%	1	0	0	0	0	0	5161.	24
30	0	0	0	0	0	4	572%	1159	1666	1831	1938	1819	1879	2029	1896	1708	884	1344	1060	80%	0	0	0	0	0	19857.	24
AV	0	0	0	0	0	0	159%	459%	619%	784%	988%	1013%	1002%	923%	835	786	646	493	260	5	0	0	0	0	0	8973.	\$
HR	30	30	30	30	30	30	29	28	28	29	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	710	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 116.

		ATLANTA (GA TECH)																								YEAR 1982		MONTH 4	
		GLOBAL HORIZ. KJ/M2																											
D A Y	HOUR																								TOIL	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	40	5277	12417	1956	2511	2940	3145	3210	2925	2386	1672	839	139	0	0	0	0	0	0	23532.	24		
2	0	0	0	0	0	0	21	210	349	684	648	957	649	438	868	566	654	344	104	0	0	0	0	0	0	6492.	24		
3	0	0	0	0	0	0	7	223	789	1843	2649	3135	3316	3320	3005	2485	1792	943	220	0	0	0	0	0	0	23727.	24		
4	0	0	0	0	0	0	70	626	1368	2026	2824	3251	2936	2708	2387	1539	949	311	40	0	0	0	0	0	0	21036.	24		
5	0	0	0	0	0	0	8	12	20	49	257	302	348	335	462	284	154	51	16	0	0	0	0	0	0	2297.	24		
6	0	0	0	0	0	0	77	670	1497	2278	2924	3363	3534	3454	3140	2573	1826	979	232	0	0	0	0	0	0	26548.	24		
7	0	0	0	0	0	0	85	694	1501	2259	2860	3288	3473	3355	2968	1961	1469	488	93	0	0	0	0	0	0	24495.	24		
8	0	0	0	0	0	0	14	88	280	218	398	191	163	295	84	80	71	69	16	0	0	0	0	0	0	1946.	24		
9	0	0	0	0	0	0	65	511	1493	2311	2904	3324	3522	3427	3078	2506	1789	744	185	0	0	0	0	0	0	25859.	24		
10	0	0	0	0	0	0	65	471	901	1564	2508	3295	3478	3277	2035	2270	1234	547	91	1	0	0	0	0	0	21735.	24		
11	0	0	0	0	0	0	88	633	1425	2218	2853	3288	3514	3429	3079	2520	1766	918	227	1	0	0	0	0	0	25960.	24		
12	0	0	0	0	0	0	100	633	1440	1914	2853	3240	3479	3346	3064	2328	1604	966	240	1	0	0	0	0	0	25210.	24		
13	0	0	0	0	0	0	115	357	515	376	1131	3061	1112	369	540	1863	1574	787	80	1	0	0	0	0	0	11880.	24		
14	0	0	0	0	0	0	14	189	742	558	309	141	140	532	1647	1606	1469	818	203	2	0	0	0	0	0	8369.	24		
15	0	0	0	0	0	0	51	411	935	1831	2534	1353	2936	1630	200	308	418	70	33	2	0	0	0	0	0	12712.	24		
16	0	0	0	0	0	0	18	201	578	994	1045	1612	945	996	1157	956	1255	712	191	2	0	0	0	0	0	10661.	24		
17	0	0	0	0	0	0	61	281	641	865	340	246	188	677	517	574	1008	406	61	2	0	0	0	0	0	5869.	24		
18	0	0	0	0	0	0	166	846	1666	2432	3049	3449	3597	3518	2578	2149	1353	501	89	2	0	0	0	0	0	25394.	24		
19	0	0	0	0	0	0	23	71	106	202	404	374	360	740	1018	570	265	228	47	2	0	0	0	0	0	4411.	24		
20	0	0	0	0	0	0	26	265	377	666	754	832	865	1728	2025	1257	939	646	64	3	0	0	0	0	0	10444.	24		
21	0	0	0	0	0	0	52	236	1086	2215	2901	3292	3459	3231	1888	1165	522	384	190	3	0	0	0	0	0	20626.	24		
22	0	0	0	0	0	0	137	327	455	771	1206	1896	2600	2470	1487	1253	999	773	268	4	0	0	0	0	0	14647.	24		
23	0	0	0	0	0	0	200	913	1738	2499	3137	3426	3716	3615	3236	2716	1496	890	220	4	0	0	0	0	0	27805.	24		
24	0	0	0	0	0	0	177	876	1727	2481	3013	3555	3619	3447	3150	1670	678	446	142	4	0	0	0	0	0	24986.	24		
25	0	0	0	0	0	0	12	52	91	99	75	69	161	200	221	216	165	95	21	3	0	0	0	0	0	1478.	24		
26	0	0	0	0	0	0	1	199	339	855	1417	2797	2211	1886	1724	2799	1999	1365	165	21	4	0	0	0	0	17782.	24		
27	0	0	0	0	0	0	1	63	264	549	745	1939	1840	2544	2126	1489	2561	1725	950	354	5	0	0	0	0	17155.	24		
28	0	0	0	0	0	0	2	237	836	1573	2266	2792	2851	2871	2766	1901	1412	997	554	349	6	0	0	0	0	21413.	24		
29	0	0	0	0	0	0	2	39	302	723	530	2102	3166	2894	2575	2264	1734	1328	855	334	9	0	0	0	0	18856.	24		
30	0	0	0	0	0	0	2	249	855	1694	2450	3069	3394	3559	3545	3162	2564	1531	1186	378	10	0	0	0	0	27648.	24		
AV	0	0	0	0	0	0	83	430	945	1424	1960	2245	2300	2216	1946	1602	1136	589	155	2	0	0	0	0	0	17032.			
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720		

123

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 # - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 117.

ATLANTA (GA TECH) YEAR 1982 MONTH 4  
GLOBAL (RG630) KJ/M2

D A Y	HOUR																								T O T L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	35	332	780	1188	1516	1744	1843	1868	1708	1402	991	504	76	0	0	0	0	0	13987.	24	
2	0	0	0	0	0	0	21	135	207	388	361	538	356	232	480	311	373	206	73	0	0	0	0	0	3682.	24	
3	0	0	0	0	0	0	6	158	499	1144	1609	1886	1971	1954	1753	1449	1058	570	139	0	0	0	0	0	14195.	24	
4	0	0	0	0	0	0	65	436	869	1239	1716	1944	1734	1587	1400	897	553	187	32	0	0	0	0	0	12657.	24	
5	0	0	0	0	0	0	8	4	19	30	127	152	178	172	243	160	90	38	27	0	0	0	0	0	1249.	24	
6	0	0	0	0	0	0	64	463	955	1399	1771	2008	2102	2052	1857	1530	1103	619	167	0	0	0	0	0	16091.	24	
7	0	0	0	0	0	0	87	498	968	1403	1761	1981	2083	2014	1781	1172	902	296	63	0	0	0	0	0	15010.	24	
8	0	0	0	0	0	0	28	68	184	141	237	101	94	164	53	56	57	61	28	0	0	0	0	0	1271.	24	
9	0	0	0	0	0	0	54	301	919	1384	1736	1971	2067	2017	1806	1475	1064	450	130	0	0	0	0	0	15374.	24	
10	0	0	0	0	0	0	60	320	569	968	1536	2004	2091	1969	1213	1368	741	331	68	1	0	0	0	0	13240.	24	
11	0	0	0	0	0	0	66	432	916	1374	1747	1980	2094	2038	1828	1499	1059	564	141	0	0	0	0	0	15739.	24	
12	0	0	0	0	0	0	70	413	905	1154	1710	1924	2027	1942	1776	1350	932	575	144	0	0	0	0	0	14922.	24	
13	0	0	0	0	0	0	81	218	296	206	636	1766	606	196	295	1077	918	472	49	0	0	0	0	0	6814.	24	
14	0	0	0	0	0	0	19	121	420	309	164	69	64	278	957	948	873	486	113	0	0	0	0	0	4822.	24	
15	0	0	0	0	0	0	34	242	555	1081	1492	760	1697	922	107	169	240	51	24	1	0	0	0	0	7376.	24	
16	0	0	0	0	0	0	13	118	318	545	572	884	508	537	648	540	729	416	116	1	0	0	0	0	5947.	24	
17	0	0	0	0	0	0	48	170	361	477	182	134	102	367	283	323	588	239	40	1	0	0	0	0	3314.	24	
18	0	0	0	0	0	0	119	562	1045	1486	1847	2077	2144	2091	1522	1266	800	301	62	1	0	0	0	0	15323.	24	
19	0	0	0	0	0	0	28	57	70	113	224	204	188	397	559	319	150	138	40	1	0	0	0	0	2486.	24	
20	0	0	0	0	0	0	29	189	216	372	414	452	467	963	1144	705	536	375	41	1	0	0	0	0	5883.	24	
21	0	0	0	0	0	0	26	131	630	1299	1690	1903	1990	1848	1070	658	301	233	126	1	0	0	0	0	11907.	24	
22	0	0	0	0	0	0	108	215	276	454	694	1101	1513	1422	844	718	587	476	174	4	0	0	0	0	8587.	24	
23	0	0	0	0	0	0	165	631	1109	1550	1902	2057	2212	2147	1925	1620	891	542	134	2	0	0	0	0	16887.	24	
24	0	0	0	0	0	0	125	573	1064	1506	1807	2117	2130	2023	1845	950	368	260	97	3	0	0	0	0	14869.	24	
25	0	0	0	0	0	0	37	56	63	57	44	37	79	103	117	121	96	71	31	5	0	0	0	0	917.	24	
26	0	0	0	0	0	0	2	160	212	499	808	1626	1250	1061	965	1590	1130	773	89	13	1	0	0	0	10179.	24	
27	0	0	0	0	0	0	2	55	169	335	428	1121	1051	1459	1216	836	1482	1008	554	223	6	0	0	0	9944.	24	
28	0	0	0	0	0	0	4	174	538	1000	1406	1698	1720	1708	1642	1116	837	594	338	237	5	0	0	0	13016.	24	
29	0	0	0	0	0	0	3	48	195	439	320	1253	1862	1686	1498	1326	1017	779	522	214	9	0	0	0	11171.	24	
30	0	0	0	0	0	0	4	183	549	1040	1466	1821	2002	2091	2070	1851	1501	901	718	241	8	0	0	0	16446.	24	
AV	0	0	0	0	0	0	67	283	584	856	1167	1323	1345	1290	1131	935	669	356	102	2	0	0	0	0	10110.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 118.

ATLANTA (GA TECH) YEAR 1982 MONTH 4

DIFFUSE HORIZ. KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	29	258%	405%	435	597	605	573	460	404	374	304	267	99	0	0	0	0	0	4811.	24	
2	0	0	0	0	0	0	23	209	345	669	638	937	647	444	841	573	651	353	122	0	0	0	0	0	6453.	24	
3	0	0	0	0	0	0	16	250	631	971	901	925	896	679	571	425	298	223	94	0	0	0	0	0	6881.	24	
4	0	0	0	0	0	0	34	191	599	861	544	656	1344	1538	1565	1211	888	328	58	0	0	0	0	0	9817.	24	
5	0	0	0	0	0	0	14	12	51	69	255	312%	370	354	473	295	153	50	17	0	0	0	0	0	2426.	24	
6	0	0	0	0	0	0	26	160	244	287	321	331	339	350	330	295	273	201	78	0	0	0	0	0	3233.	24	
7	0	0	0	0	0	0	27	154	216	273	324	383	564	705	587	1196	1022	470	107	0	0	0	0	0	6026.	24	
8	0	0	0	0	0	0	10	64	272	224	406	211	178	301	106	105	87	102	30	0	0	0	0	0	2097.	24	
9	0	0	0	0	0	0	63	296	352	338	381	404	403	443	483	433	374	394	145	0	0	0	0	0	4509.	24	
10	0	0	0	0	0	0	53	436	855	1382	1209	896	449	1371	1723	1279	896	500	100	0	0	0	0	0	11146.	24	
11	0	0	0	0	0	0	69	337	539	614	660	665	569	529	504	467	413	297	126	1	0	0	0	0	5788.	24	
12	0	0	0	0	0	0	69	216	454	719	496	528	472	507	478	653	729	518	141	1	0	0	0	0	5980.	24	
13	0	0	0	0	0	0	95	327	503	373	1041	1353	1027	378	542	1019	846	575	98	1	0	0	0	0	8177.	24	
14	0	0	0	0	0	0	17	201	722	549	308	143	146	543	1428	1142	789	457	168	3	0	0	0	0	6815.	24	
15	0	0	0	0	0	0	50	397	784	1037	1240	1269	1416	1167	246	365	445	92	48	1	0	0	0	0	8557.	24	
16	0	0	0	0	0	0	19	204	569	969	1024	1535	926	976	1078	861	956	514	211	4	0	0	0	0	9847.	24	
17	0	0	0	0	0	0	76	290	634	853	353	284	237	687	537	551	906	413	78	1	0	0	0	0	5901.	24	
18	0	0	0	0	0	0	79	218%	278%	316%	348%	382%	400%	431%	1001	1163	786	518	112	2	0	0	0	0	6035.	24	
19	0	0	0	0	0	0	29	82	115	203	413	386	373	731	984	583	266	225	51	1	0	0	0	0	4422.	24	
20	0	0	0	0	0	0	54	372	389	656	736	813	845	1624	1663	1062	796	373	95	3	0	0	0	0	9411.	24	
21	0	0	0	0	0	0	59	237	733	626	515	528	921	1054	1258	1114	536	388	202	3	0	0	0	0	8174.	24	
22	0	0	0	0	0	0	139	322	451	750	1171	1699	1815	1950	1436	1167	934	609	191	5	0	0	0	0	12639.	24	
23	0	0	0	0	0	0	102	210	285	352	412	433%	453	474	511	495	639	526	230	8	0	0	0	0	5130.	24	
24	0	0	0	0	0	0	95	214	279	336	630	464	515	597	568	798	662	468	170	8	0	0	0	0	5802.	24	
25	0	0	0	0	0	0	37	83	120	135	115	112	217	230	252	240	220	134	57	7	0	0	0	0	1958.	24	
26	0	0	0	0	0	2	183	361	834	1218	920	1532	1625	1427	1207	1016	781	199	50	2%	0	0	0	0	11357.	24	
27	0	0	0	0	0	2	96	282	545	719	1587	1567	1629	1256	1306	937	692	395	190	10	0	0	0	0	11214.	24	
28	0	0	0	0	0	1	162	428	659	866	1080	1550	1743	1774	1557	1178	944	565	296	9	0	0	0	0	12813.	24	
29	0	0	0	0	0	2	51	307	680	495	1385	1667	1640	1710	1649	1307	909	671	290	16	0	0	0	0	12780.	24	
30	0	0	0	0	0	3	167	341	433	498	536	715	697	564	628	645	782	516	197	15	0	0	0	0	6739.	24	
AV	0	0	0	0	0	0	65	246	466	593	685	776	781	842	864	764	633	378	128	3	0	0	0	0	7225.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:

- % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 119.

		ATLANTA (GA TECH)												YEAR 1982		MONTH 4													
		LAT. TILTED KJ/M2																											
D A Y	HOUR																								TOTL	HR			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	0	32	516	1323	2171	2830	3340	3596	3668	3322	2674	1804	853	131	0	0	0	0	0	0	26261.	24		
2	0	0	0	0	0	0	22	175	296	593	564	840	549	382	819	523	598	323	100	0	0	0	0	0	0	5786.	24		
3	0	0	0	0	0	0	19	197	774	1972	2933	3500	3708	3720	3342	2720	1901	944	184	0	0	0	0	0	0	25915.	24		
4	0	0	0	0	0	0	48	573	1395	2142	3083	3655	3214	2885	2437	1497	849	269	46	0	0	0	0	0	0	22093.	24		
5	0	0	0	0	0	0	23	35	35	58	226	2645	301	297	399	241	120	40	35	0	0	0	0	0	0	2074.	24		
6	0	0	0	0	0	0	46	588	1515	2437	3210	3735	3942	3834	3447	2772	1891	936	177	0	0	0	0	0	0	28530.	24		
7	0	0	0	0	0	0	54	618	1512	2410	3134	3636	3803	3645	3236	2031	1418	429	82	0	0	0	0	0	0	26008.	24		
8	0	0	0	0	0	0	27	52	232	186	359	173	147	249	77	88	66	63	38	0	0	0	0	0	0	1758.	24		
9	0	0	0	0	0	0	62	415	1487	2417	3140	3633	3867	3753	3340	2663	1825	682	153	0	0	0	0	0	0	27436.	24		
10	0	0	0	0	0	0	56	398	832	1501	2631	3496	3808	3451	2035	2264	1154	499	92	3	0	0	0	0	0	22221.	24		
11	0	0	0	0	0	0	72	557	1400	2313	3057	3577	3834	3727	3309	2647	1769	838	171	4	0	0	0	0	0	27274.	24		
12	0	0	0	0	0	0	84	557	1374	1953	3032	3497	3766	3602	3261	2420	1575	871	183	5	0	0	0	0	0	26179.	24		
13	0	0	0	0	0	0	89	316	476	327	1020	3257	994	320	474	1874	1572	709	83	5	0	0	0	0	0	11517.	24		
14	0	0	0	0	0	0	35	161	630	509	284	123	105	478	1615	1559	1433	733	155	5	0	0	0	0	0	7826.	24		
15	0	0	0	0	0	0	50	352	887	1842	2626	1236	3082	1651	161	229	402	63	42	6	0	0	0	0	0	12628.	24		
16	0	0	0	0	0	0	38	161	481	847	911	1468	797	861	1034	848	1158	629	150	6	0	0	0	0	0	9390.	24		
17	0	0	0	0	0	0	55	235	552	754	294	215	172	561%	468	507	890	344	62	8	0	0	0	0	0	5116.	24		
18	0	0	0	0	0	0	91	661	1554	2432	3152	3625	3801	3722	2651	2112	1260	445	86	8	0	0	0	0	0	25601.	24		
19	0	0	0	0	0	0	40	59	88	164	362	327	319	650	902	502	215	196	49	9	0	0	0	0	0	3881.	24		
20	0	0	0	0	0	0	44	223	322	556	636	708	753	1605	1953	1163	833	556	64	9	0	0	0	0	0	9425.	24		
21	0	0	0	0	0	0	51	201	991	2145	2962	3418	3571	3355	1816	1064	479	343	161%	10	0	0	0	0	0	20567.	24		
22	0	0	0	0	0	0	127	282	383	680	1031	1751	2652	2370	1385	1151	894	645	188	11	0	0	0	0	0	13551.	24		
23	0	0	0	0	0	0	118	697	1580	2447	3179	3521	3863	3745	3311	2706	1433	745	184	11	0	0	0	0	0	27539.	24		
24	0	0	0	0	0	0	101	663	1559	2417	3020	3631	3742	3558	3219	1673	644	401	127	12	0	0	0	0	0	24765.	24		
25	0	0	0	0	0	0	44	62	84	91	71	66	145	181	200	184	146	92	48	13	0	0	0	0	0	1427.	24		
26	0	0	0	0	0	4	145	285	720	1285	2754	2099	1747	1661	2798	1940	1247	132	45	14	0	0	0	0	0	16877.	24		
27	0	0	0	0	0	5	62	224	457	642	1831	1755	2523	2072	1328	2443	1567	765	206	14	0	0	0	0	0	15894.	24		
28	0	0	0	0	0	6	143%	632	1405	2191	2803	2835	2850	2729	1768	1297	875	477	248%	15	0	0	0	0	0	20275.	24		
29	0	0	0	0	0	7	52	247	615	480	1984	3109	2908	2519	2135	1577	1201	686	240%	16	0	0	0	0	0	17778.	24		
30	0	0	0	0	0	8	141	632	1482	2315	3019	3404	3606	3571	3129	2467	1384	898	193	17	0	0	0	0	0	26267.	24		
AV	0	0	0	0	0	1	66	359	881	1409	2005	2330	2406	2294	1979	1595	1087	520	124	7	0	0	0	0	0	17062.			
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720		

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 S - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 120.

ATLANTA (GA TECH) YEAR 1962 MONTH 4

INFRARED 10 KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	127	127	127	124	123	123	124	133	139	140%	138%	124%	125%	126	120%	128	130	133	128	121	120	126	120	118	3046.	24	
2	115	119	126	124	133	133	134	136	139	141	142	141	145	145	143	145	145	145	139	134	141	143	134	139	3283.	24	
3	138	145	144	142	146	150	145%	148%	136	134	128	113%	114%	113%	112%	118	118	120	115	106%	106	104	103	102	3000.	24	
4	102	100	99	98	97	98	103	116	118	118	112	103%	110%	120	126	130	134	135	135	133	132	133	127	128	2807.	24	
5	134	135	133	133	133	133	134	133	135	138	137	136%	135	136	136	138	137	136	136	136	136	136	136	136	3251.	24	
6	136	137	118	106	97	103	93	104	104	102	96	92	90%	91%	91%	96	101	105	101	94	92	91	90	89	2421.	24	
7	89	89	88	92	88	87	93	105	106	106	103%	100%	99%	103%	103%	117	123	126%	125	123	128	130	129%	130	2581.	24	
8	129	129	128	128	126	127	129	130	132	133	132	130	130	133%	133%	136%	154%	157%	129%	126	126	127	126	126	3155.	24	
9	128	126	126	126	126	128	120	122	116	109	103	104%	97%	103%	104%	108	111	117	115	115	112	111	113	114	2752.	24	
10	115	117	112	109	110	106	103	113	117	117%	108%	99%	100%	106%	122	119	124	124	127	124	121	114	111	113	2731.	24	
11	118	111	102	100	98	97	100	110	115	113	107	103	101%	103%	107%	111	116	120	118	111	109	108	107	107	2587.	24	
12	106	106	105	105	106	107	112	121	125	125	120	112%	114%	114%	121%	118%	128	131	126	121	121	123	127	125	2817.	24	
13	124	122	120	117	113	113	119	135	143	144	144	121%	147	150	151	138	136	139	146	146	141	140	142	141	3234.	24	
14	139	144	142	142	143	144	146%	148	146	145	143	144	144	147	145	141	138	142	138	138	137	138	135	138	3408.	24	
15	146	146	139	132	130	144	144	142	143	142	140	154	141%	151	154	154	147	148	146	141	139	133	136	129	3422.	24	
16	130	133	136	138	137	141	145	148	148	149	151	149	149	154	154	153	147	145	143	142	143	136	136	133	3438.	24	
17	138	133	132	132	140	150	151	153	152	150	153	149	148	147	145%	147	144	148	149	144	145	145	124	113	3430.	24	
18	108	106	104	102	101	99	106%	116	117	114	108%	107%	110%	110%	113%	127	132	135	137%	135	133	120	120	129	2788.	24	
19	130	132	133	134	131	131	133	135	136	137	138	136	136	134	136	138	138	138	138	138	137	137	137	137	3248.	24	
20	135	137	136	134	134	134	137	138	141	141	142	144	146	145	145	148	149	143%	150	146	135	134	139	141	3373.	24	
21	145	145	142	141	129	133	142	143	135	128	123	120%	124%	124%	135	138	139	136	127	121	116	116	113	113	3126.	24	
22	120	121	130	123	110	110	119	131	132	133	133	130	121	129	136	133	130	125	115	108	109	109	106	104	2916.	24	
23	101	100	100	98	96	94	103	113	113	111	103%	100%	97%	103%	104%	108%	115	119	117	110	110	109	107	107	2533.	24	
24	106	107	106	104	102	102	110	119	119	115	111	109%	110%	109%	115%	122	133	137	133	124	125	135	141	141	2834.	24	
25	141	139	139	137	138	138	139	140	140	141	146%	146%	145%	144	144	147%	146%	146%	146%	146%	146%	147%	145	145	146	3431.	24
26	144	145	148	144	136	135	146%	146	145	142	130	139%	137	145	136	143	145	143	147	141	137	136	132	135	3384.	24	
27	141	139	137	135	139	126	138	145	146	144	139	140	128	125	139	130	134	134	132	124	121	120	118	117	3191.	24	
28	116	115	114	112	111	110	116	122	127	126%	122%	125%	126	126	134	136	137	138	131	120	118	117	117	118	2933.	24	
29	121	122	125	127	125	136	141	140	140	139	128	117%	117	123	127	131	127	130	126	131	133	133	133	128	3100.	24	
30	114	112	110	109	109	109	117	123	124	119	112	109%	106%	106%	111%	116	123	125	122	113	111	110	110	110	2730.	24	
AV	124	125	123	122	120	121	125	130	131	130	126	123	123	126	128	131	133	134	131	127	126	125	124	124	3032.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720		

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 FLAGS:  
 \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 s - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 121.

		ATLANTA (GA TECH)										YEAR 1982										MONTH 4					
		ULTRAVIOLET KJ/M2																									
D A Y		HOUR																								TOTL	HR
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	2	24	60	95	122	147	159	164	143	110	73	36	9	0	0	0	0	0	1143.	24	
2	0	0	0	0	0	0	1	12	23	44	44	63	45	33	56	38	41	21	6	0	0	0	0	0	428.	24	
3	0	0	0	0	0	0	0	13	39	84	129	156	168	170	152	121	83	42	10	0	0	0	0	0	1169.	24	
4	0	0	0	0	0	0	3	29	68	107	151	176	163	149	129	87	56	21	4	0	0	0	0	0	1143.	24	
5	0	0	0	0	0	0	0%	2	4	21	26	31	31	39	23	11	2	0%	0	0	0	0	0	0	190.	24	
6	0	0	0	0	0	0	3	29	72	120	162	191	203	195	173	135	89	44	10	0	0	0	0	0	1426.	24	
7	0	0	0	0	0	0	3	30	73	119	156	180	187	176	150	100	67	27	6	0	0	0	0	0	1275.	24	
8	0	0	0	0	0	0	0%	5	20	18	30	20	15	24	8	8	7	5	1%	0	0	0	0	0	162.	24	
9	0	0	0	0	0	0	3	27	73	119	157	184	198	190	166	130	87	40	10	0	0	0	0	0	1383.	24	
10	0	0	0	0	0	0	4	26	53	91	139	175	186	172	113	114	66	34	7	0%	0	0	0	0	1179.	24	
11	0	0	0	0	0	0	4	29	66	110	147	174	189	182	158	124	81	40	11	0	0	0	0	0	1316.	24	
12	0	0	0	0	0	0	5	32	70	101	146	169	183	175	155	115	77	43	13	0	0	0	0	0	1284.	24	
13	0	0	0	0	0	0	5	21	33	27	71	170	74	28	37	95	74	38	7	0%	0	0	0	0	683.	24	
14	0	0	0	0	0	0	0%	12	44	36	22	11	13	40	94	83	66	37	12	0	0	0	0	0	470.	24	
15	0	0	0	0	0	0	3	25	54	98	133	83	155	93	21	23	29	6	2	0%	0	0	0	0	725.	24	
16	0	0	0	0	0	0	2%	14	40	67	70	105	65	67	71	58	65	38	12	0	0	0	0	0	674.	24	
17	0	0	0	0	0	0	3	16	39	55	25	23	18	52	41	40	60	26	4	0%	0	0	0	0	400.	24	
18	0	0	0	0	0	0	7	38	81	125	161	165	192	183	137	110	70	30	7	0	0	0	0	0	1327.	24	
19	0	0	0	0	0	0	1%	5	9	16	32	32	32	56	70	41	20	16	3	0%	0	0	0	0	333.	24	
20	0	0	0	0	0	0	3	19	27	47	53	57	60	108	117	76	55	37	6	0	0	0	0	0	666.	24	
21	0	0	0	0	0	0	4	16	64	122	161	184	192	177	110	72	36	24	11	0	0	0	0	0	1173.	24	
22	0	0	0	0	0	0	7	19	30	50	79	116	152	142	92	77	59	38	14	0	0	0	0	0	676.	24	
23	0	0	0	0	0	0	9	40	80	123	162	180	198	189	164	130	75	44	14	1	0	0	0	0	1408.	24	
24	0	0	0	0	0	0	9	40	82	125	158	187	193	182	161	97	53	30	9	0	0	0	0	0	1326.	24	
25	0	0	0	0	0	0	2%	7	11	11	9	9	17	21	22	22	15	9	2	0	0	0	0	0	158.	24	
26	0	0	0	0	0	0	11	23	57	86	151	131	114	106	150	107	69	13	3	0%	0	0	0	0	1019.	24	
27	0	0	0	0	0	0%	4	17	34	47	116	112	147	126	97	131	86	49	17	1	0	0	0	0	984.	24	
28	0	0	0	0	0	0%	11	40	77	114	143	146	154	147	107	80	56	33	15	1	0	0	0	0	1124.	24	
29	0	0	0	0	0	0%	3	20	44	35	116	173	164	146	126	95	74	44	16	1	0	0	0	0	1058.	24	
30	0	0	0	0	0	0	12	42	84	130	168	187	196	192	167	130	79	53	16	1	0	0	0	0	1459.	24	
AV	0	0	0	0	0	0	4	22	50	78	108	125	129	124	108	86	59	31	9	0	0	0	0	0	932.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 122.

ATLANTA (GA TECH) YEAR 1982 MONTH 4

D A Y	AVAILABLE SUNSHINE %																								AVG	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0%	47%	100%	100	100	99	97	100	100	100	100	99	45	0	0	0	0	0	87.	24	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
3	0	0	0	0	0	0	0	0	5	100	100	100	100	100	100	100	100	100	84	0	0	0	0	0	79.	24	
4	0	0	0	0	0	0	64	100	100	100	100	100	97	98	71	20	0	0	0	0	0	0	0	0	66.	24	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
6	0	0	0	0	0	0	64	100	99	100	100	100	100	100	100	100	100	100	78	0	0	0	0	0	97.	24	
7	0	0	0	0	0	0	70	100	100	100	100	100	100	100	99	44	54	1	0	0	0	0	0	0	75.	24	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
9	0	0	0	0	0	0	15	34	90	100	100	100	100	100	100	100	100	46	16	0	0	0	0	0	79.	24	
10	0	0	0	0	0	0	0	0	0	4	67	100	100	85	11	70	20	0	0	0	0	0	0	0	36.	24	
11	0	0	0	0	0	0	0	79	100	100	100	100	100	100	100	100	100	63	0	0	0	0	0	0	90.	24	
12	0	0	0	0	0	0	22	75	99	96	100	100	100	100	100	100	100	88	51	0	0	0	0	0	87.	24	
13	0	0	0	0	0	0	0	0	0	0	3	86	4	0	0	65	84	38	0	0	0	0	0	0	22.	24	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	12	39	89	100	23	0	0	0	0	0	0	21.	24	
15	0	0	0	0	0	0	0	0	21	64	84	6	70	28	0	0	0	0	0	0	0	0	0	0	21.	24	
16	0	0	0	0	0	0	0	0	0	0	1	1	0	5	7	43	39	0	0	0	0	0	0	0	8.	24	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	9	0	0	0	0	0	0	0	0	1.	24	
18	0	0	0	0	0	0	41%	100%	100%	100%	100%	100%	100%	100	84	83	48	0	0%	0%	0	0	0	0	73.	24	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	3	19	12	13	40	0	0	0	0	0	0	7.	24	
21	0	0	0	0	0	0	0	0	39	95	100	100	100	95	29	0	0	0	0	0	0	0	0	0	43.	24	
22	0	0	0	0	0	0	0	0	0	0	5	53	25	0	3	0	35	41	0	0	0	0	0	0	13.	24	
23	0	0	0	0	0	0	72	100	100	100	100	100	100	100	100	64	48	0	0	0	0	0	0	0	81.	24	
24	0	0	0	0	0	0	57	97	100	100	99	100	100	100	100	46	3	0	0	0	0	0	0	0	68.	24	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	24	
26	0	0	0	0	0	0	21	0	1	10	81	32	13	14	73	57	47	0	0	0	0	0	0	0	26.	24	
27	0	0	0	0	0	0	0	0	0	20	14	45	39	11	88	81	77	71	0	0	0	0	0	0	34.	24	
28	0	0	0	0	0	0	19	98	100	100	100	81	78	72	17	18	0	0	29	0	0	0	0	0	54.	24	
29	0	0	0	0	0	0	0	0	5	5	48	90	83	78	57	34	55	37	16	0	0	0	0	0	38.	24	
30	0	0	0	0	0	0	36	100	100	100	100	100	100	100	100	96	100	95	0	0	0	0	0	0	92.	24	
AV	0	0	0	0	0	0	16	35	42	49	57	58	58	55	46	46	43	35	20	0	0	0	0	0	43.		
HR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 DR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 37.

Table 123.

ATLANTA (GA TECH) YEAR 1982 MONTH 5

DIRECT NORMAL KJ/M2

D A Y	HOUR																								T O T L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	1	598	1774	2330	2648	2221	2595	1397	547	1570	487	500	520	276	1	0	0	0	0	17464.	24	
2	0	0	0	0	0	1	114	1254	1893	2201	2527	2328	1471	748	1645	275	1598	1318%	764%	14	0	0	0	0	18152.	24	
3	0	0	0	0	0	3	565	1454	1958	2268	2501	2366	2369	2644	2411	2327	1681	1471	808	27	0	0	0	0	24874.	24	
4	0	0	0	0	0	1	493	1348	1863	2173	2350	1820	1560	1100	799	1426	706	774	63	1	0	0	0	0	16477.	24	
5	0	0	0	0	0	1	130	1017	1620	1960	2080	1540	1576	920	1957	760	385	946	441	5	0	0	0	0	15337.	24	
6	0	0	0	0	0	1	309	376	270	502	482	837	972	1317	765	503	337	352	35	1	0	0	0	0	7058.	24	
7	0	0	0	0	0	3	143	24	590	569	396	136	11	3	3	3	3	3	3	1	0	0	0	0	1890.	24	
8	0	0	0	0	0	1	42	1292	1940	599	531	1593	1913	2966	3149	2796	2154	1821	1148	84	0	0	0	0	22030.	24	
9	0	0	0	0	0	1	208	1890	2571	2951	3172	3276	3302	3290	3173	2950	2651	2129	1146	61	0	0	0	0	32770.	24	
10	0	0	0	0	0	28	1012	2075	2589	2867	2954	2648	1984	2123	1196	1632	1807	1389	818	47	0	0	0	0	25170.	24	
11	0	0	0	0	0	4	663	1881	2372	2686	2938	3057	3042	2922	2800	2599	2031	1630	782	59	0	0	0	0	29666.	24	
12	0	0	0	0	0	45	1059	1980	2507	2778	2947	3025	3027	2938	2903	2731	2369	1857	965	82	0	0	0	0	31213.	24	
13	0	0	0	0	0	35	1077	2115	2534	2715	2825	2912	2896	2915	2831	2396	2243	1639	824	82	0	0	0	0	30039.	24	
14	0	0	0	0	0	12	841	1817	2395	2722	2797	2468	2695	2397	2109	2212	1564	625	2	1	0	0	0	0	24657.	24	
15	0	0	0	0	0	5	3	252	787	513	892	1435	1840	1533	1897	1485	1089	1198	558	3	0	0	0	0	13489.	24	
16	0	0	0	0	0	15	736	1596	2054	2359	2515	2520	1255	2070	2098	1922	1725	1168	88	6	0	0	0	0	22125.	24	
17	0	0	0	0	0	1	342	676	1426	1675	1812	1692	976	260	3	3	3	3	3	2	0	0	0	0	8878.	24	
18	0	0	0	0	0	8	414	1029	1437	1683	1699	1630	1616	1306	983	99	25	42	3	3	0	0	0	0	11977.	24	
19	0	0	0	0	0	1	4	56	229	255	194	82	883	205	203	291	3	5	3	2	0	0	0	0	2415.	24	
20	0	0	0	0	0	2	202	595	1073	1414	1495	1161	936	459	147	579	274	3	3	2	0	0	0	0	8347.	24	
21	0	0	0	0	0	17	457	261	737	1811	2017	1659	1618	1274	1277	1317	1481	1459	749	27	0	0	0	0	16162.	24	
22	0	0	0	0	0	3	275	1100	1602	1731	870	173	3	3	3	3	3	3	3	2	0	0	0	0	5576.	24	
23	0	0	0	0	0	1	42	3	15	3	4	205	132	49	3	3	3	3	3	2	0	0	0	0	470.	24	
24	0	0	0	0	0	1	11	20	4	3	5	11	134	92	1640	1965	829	1113	711	101	0	0	0	0	6642.	24	
25	0	0	0	0	0	34	609	769	1984	2230	1507	966	725	593	3	3	3	3	3	2	0	0	0	0	9435.	24	
26	0	0	0	0	0	2	3	21	3	5	126	522	82	1098	1649	1748	658	488	6	2	0	0	0	0	6413.	24	
27	0	0	0	0	0	2	461	885	174	3	161	157	179	175	1042	1550	1733	1651	381	2	0	0	0	0	8557.	24	
28	0	0	0	0	0	2	945	1761	2209	2406	2030	1575	2131	1623	1460	906	1237	1028	666	23	0	0	0	0	20003.	24	
29	0	0	0	0	0	3	318	1275	1548	1616	1559	1210	526	1313	2033	2099	1972	1797	546	87	0	0	0	0	17901.	24	
30	0	0	0	0	0	41	965	1825	2260	2114	1135	2101	1292	1084	1576	1546	568	63	12	2	0	0	0	0	16585.	24	
31	0	0	0	0	0	17	344	1579	2189	2510	2682	2767	2768	992	1296	1382	1708	6	165	2	0	0	0	0	20409.	24	
AV	0	0	0	0	0	9	438	1097	1521	1676	1653	1529	1462	1321	1439	1290	1076	855	386	24	0	0	0	0	15877.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:

- X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 124.

ATLANTA (GA TECH) YEAR 1982 MONTH 5

DIRECT (RG630) KJ/M2

D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	2	503	1283	1563	1729	1424	1652	898	358	1042	343	364	425	258%	1	0	0	0	0	0	11846.	24
2	0	0	0	0	0	1	191	982	1347	1496	1695	1541	981	512	1137	203	1217	1241*	71*	21	0	0	0	0	0	12333.	522
3	0	0	0	0	0	4	529%	1191	1474	1621	1730	1667	1643	1823	1699	1668	1311	1215	746%	31	0	0	0	0	0	18352.	24
4	0	0	0	0	0	1	463%	1113	1424	1591	1679	1310	1147	820	624%	1135%	606%	742%	63	1	0	0	0	0	0	12727.	24
5	0	0	0	0	0	1	125%	893%	1270	1453	1506	1114	1129	656	1417	583	312%	844%	437%	7	0	0	0	0	0	11757.	24
6	0	0	0	0	0	2	300%	334%	212	368	343	578	670	915	555	362	259	301%	39	1	0	0	0	0	0	5240.	24
7	0	0	0	0	0	4	141	22	410	369	249	84	9	5	3	3	3	4	4	2	0	0	0	0	0	1311.	24
8	0	0	0	0	0	1	31	891	1258	369	320	970	1164	1830	1950	1787	1450	1337	968	86%	0	0	0	0	0	14422.	24
9	0	0	0	0	0	1	169	1349	1697	1870	1970	2022	2034	2030	1992	1883	1751	1506	935	64	0	0	0	0	0	21265.	24
10	0	0	0	0	0	30	844	1490	1729	1843	1834	1677	1262	1379	797	1131	1318	1101	729%	53	0	0	0	0	0	17271.	24
11	0	0	0	0	0	7	720	1380	1621	1769	1887	1942	1926	1876	1829	1747	1460	1255	703%	69%	0	0	0	0	0	20192.	24
12	0	0	0	0	0	50	891%	1443	1690	1809	1883	1913	1914	1878	1862	1786	1619	1372	829%	87%	0	0	0	0	0	21026.	24
13	0	0	0	0	0	39	896%	1516	1719	1792	1844	1876	1862	1862	1818	1576	1538	1222	707%	88%	0	0	0	0	0	20356.	24
14	0	0	0	0	0	13	726%	1353	1641	1787	1824	1637	1767	1568	1381	1487	1128	491	5	2	0	0	0	0	0	16810.	24
15	0	0	0	0	0	6	4	187	525	330	568	905	1147	963	1229	1019	790	949	518%	6	0	0	0	0	0	9147.	24
16	0	0	0	0	0	17	649%	1229	1473	1615	1685	1682	844	1385	1419	1345	1264	946%	97%	9	0	0	0	0	0	15660.	24
17	0	0	0	0	0	2	331%	594%	1134	1288	1361	1282%	741%	201	4	3	4	4	6	2	0	0	0	0	0	6955.	24
18	0	0	0	0	0	10	389%	869%	1139	1266	1260	1206	1203	958	754%	81	27	44	4	5	0	0	0	0	0	9224.	24
19	0	0	0	0	0	2	7	52	193%	195	145	57	646	159%	156%	225	4	6	5	3	0	0	0	0	0	1853.	24
20	0	0	0	0	0	3	197%	542%	895%	1119%	1158%	883%	704%	340	111	438	234%	4	4	2	0	0	0	0	0	6634.	24
21	0	0	0	0	0	15	408	220	556	1301	1419	1144	1146	905	916	967	1125	1152	872%	34	0	0	0	0	0	11980.	24
22	0	0	0	0	0	4	263%	903	1198	1226	471	131	5	4	4	4	4	4	4	2	0	0	0	0	0	4228.	24
23	0	0	0	0	0	2	41	4	10	4	4	128	85	31	4	4	4	4	4	2	0	0	0	0	0	330.	24
24	0	0	0	0	0	2	11	16	4	4	5	8	84	57	1069	1308	601	887	660%	112%	0	0	0	0	0	4826.	24
25	0	0	0	0	0	16%	499	544	1309	1419	966	636	495	401	4	4	4	4	4	2	0	0	0	0	0	6306.	24
26	0	0	0	0	0	2	4	16	4	5	84	324	47	691	1042	1131	431	351	9	2	0	0	0	0	0	4142.	24
27	0	0	0	0	0	2	383	651	129	4	108	93	110	111	721	1035	1197	1197	330	2	0	0	0	0	0	6075.	24
28	0	0	0	0	0	2	793	1275	1486	1565	1338	1075	1448	1105	1022	600	963	853%	634%	27	0	0	0	0	0	14240.	24
29	0	0	0	0	0	3	276	976	1091	1101	1019	773	338	823	1294	1375	1363	1314	468%	93%	0	0	0	0	0	12312.	24
30	0	0	0	0	0	42	806	1328	1530	1386	754	1426	874	772	1175%	1152	474%	64	16	3	0	0	0	0	0	11802.	24
31	0	0	0	0	0	19	284	1168	1469	1614	1675	1697	1699	614	800	864	1093	2	133	3	0	0	0	0	0	13140.	24
AV	0	0	0	0	0	10	380	833	1071	1139	1105	1078	968	873	963	881	772	654%	333%	27	0	0	0	0	0	11085.	s
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	742	

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**FLAGS:**

- \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 125.

		ATLANTA (GA TECH)																								YEAR 1982		MONTH 5	
		GLOBAL HORIZ. KJ/M2																											
D A Y	HOURL																								T O T L	H R			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0	0	0	0	0	3	231	921	1687	2347	2785	3508	2873	2109	2786	1517	1259	817	305	6	0	0	0	0	23156.	24			
2	0	0	0	0	0	2	176	863	1562	2232	2929	3081	2744	1963	2634	1348	1651	967	325	8	0	0	0	0	22486.	24			
3	0	0	0	0	0	4	228	853	1595	2296	2898	3264	3345	3425	2994	2541	1741	991	329	10	0	0	0	0	26513.	24			
4	0	0	0	0	0	3	222	840	1569	2256	2927	2883	3027	2704	1934	2181	1223	942	255	7	0	0	0	0	22875.	24			
5	0	0	0	0	0	3	186	803	1546	2237	2747	2746	2897	2186	3104	1759	1062	902	290	9	0	0	0	0	22476.	24			
6	0	0	0	0	0	7	289	729	1111	1709	1834	2557	2843	3021	2279	1740	1381	688	200	7	0	0	0	0	20396.	24			
7	0	0	0	0	0	8	249	485	1270	1810	2036	1987	1439	986	684	292	269	90	61	5	0	0	0	0	11672.	24			
8	0	0	0	0	0	4	163	953%1670	1882	2076	2951	3244	3634	3285	2611	1884	1052	386	16	0	0	0	0	0	25811.	24			
9	0	0	0	0	0	8	243	1143	1801	2543	3130	3525	3669	3567	3214	2635	1909	1115	381	16	0	0	0	0	28898.	24			
10	0	0	0	0	0	9	313	1015	1776	2473	3022	3341	3292	3287	2553	2249	1696	968	347	14	0	0	0	0	26356.	24			
11	0	0	0	0	0	6	297	965	1701	2403	3008	3391	3521	3360	3068	2526	1678	996	326	16	0	0	0	0	27263.	24			
12	0	0	0	0	0	12	333	972	1745	2445	3020	3384	3509	3373	3084	2552	1822	1061	360	18	0	0	0	0	27690.	24			
13	0	0	0	0	0	10	328	1036	1764	2418	2957	3368	3505	3457	3137	2420	1832	1033	346	19	0	0	0	0	27630.	24			
14	0	0	0	0	0	8	301	975	1736	2437	2947	3124	3541	3158	2642	2429	1581	759	185	9	0	0	0	0	25833.	24			
15	0	0	0	0	0	5	147	707	1492	1851	2477	2842	3102	3070	2911	2205	1483	1096	457	23	0	0	0	0	23867.	24			
16	0	0	0	0	0	12	309	966	1680	2377	2921	3335	2344	3234	2932	2468	1852	1088	319	25	0	0	0	0	25913.	24			
17	0	0	0	0	0	10	321	764	1510	2148	2748	3191	2245%1298	520	135	174	164	94	9	0	0	0	0	0	15333.	24			
18	0	0	0	0	0	16	303	887	1581	2258	2726	3099	3221	2853	2496	692	597	627	99	7	0	0	0	0	21461.	24			
19	0	0	0	0	0	16	162	527	1119	1454	1858	1978	2955	1868	2019	1112	570	440	96	9	0	0	0	0	16182.	24			
20	0	0	0	0	0	13	274	859	1572	2240	2702	2732	2747	2065	1894	2014	1010	183	44	7	0	0	0	0	20353.	24			
21	0	0	0	0	0	24	362	726	1373	2329	2873	2911	3140	2553	2349	1954	1596	1061	392	22	0	0	0	0	23664.	24			
22	0	0	0	0	0	19	314	927	1606	2253	1740	807	285	407	713	320	183	203	151	8	0	0	0	0	10057.	24			
23	0	0	0	0	0	20	264	485	988	944	1274	1988	1984	1531	489	123	228	80	126	22	0	0	0	0	10444.	24			
24	0	0	0	0	0	11	228	523	449	666	1246	1384	1900	1960	2698	2307	1313	1156	451	37	0	0	0	0	16331.	24			
25	0	0	0	0	0	34	407	731	1684	2355	2573	2094	2147	1588	117	676	314	479	292	27	0	0	0	0	15516.	24			
26	0	0	0	0	0	9	95	341	685	707	1504	2231	1709	3285	3025	2367	1142	822	264	25	0	0	0	0	18211.	24			
27	0	0	0	0	0	31	463	930	633	660	1749	1968	1680	1508	2399	2270	1947	1155	356	25	0	0	0	0	17774.	24			
28	0	0	0	0	0	11	373	1031	1747	2389	2707	2715	3444	2985	2644	1901	1675	983	425	26	0	0	0	0	25061.	24			
29	0	0	0	0	0	13	274	988	1654	2195	2507	2618	2146	2661	2933	2642	1995	1190	325	36	0	0	0	0	24160.	24			
30	0	0	0	0	0	19	362	1024	1739	2319	2121	3238	2628	2372	2787	2280	1284	500	286	35	0	0	0	0	23001.	24			
31	0	0	0	0	0	29	314	1043	1848	2531	3030	3325	3396	2030	2150	1957	1942	457	262	27	0	0	0	0	24340.	24			
AV	0	0	0	0	0	13	275	839	1480	2037	2483	2757	2726	2500	2339	1817	1300	777	275	17	0	0	0	0	21636.				
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744			

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 126.

		ATLANTA (GA TECH)										YEAR 1982										MONTH 5					
		GLOBAL (RG630) KJ/M2																									
D A Y	HOURL																								T O T L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	5	164	597	1053	1421	1665	2096	1708	1233	1679	892	756	500	207	6	0	0	0	0	13987.	24	
2	0	0	0	0	0	4	134	577	978	1367	1764	1825	1641	1175	1572	784	995	592	200	4	0	0	0	0	13610.	24	
3	0	0	0	0	0	5	161	555	988	1396	1741	1952	1969	2020	1774	1524	1067	612	210	8	0	0	0	0	16001.	24	
4	0	0	0	0	0	6	169	559	990	1393	1720	1718	1815	1609	1141	1309	717	621	169	5	0	0	0	0	13940.	24	
5	0	0	0	0	0	4	126	531	966	1368	1657	1616	1711	1249	1841	1018	633	564	175	5	0	0	0	0	13465.	24	
6	0	0	0	0	0	10	209	468	667	1036	1085	1507	1663	1768	1347	1012	802	397	122	5	0	0	0	0	12099.	24	
7	0	0	0	0	0	7	173	289	758	1059	1185	1137	805	539	371	153	146	67	67	9	0	0	0	0	6767.	24	
8	0	0	0	0	0	9	115	607	985	1103	1206	1718	1883	2109	1898	1511	1103	625	243	11	0	0	0	0	15124.	24	
9	0	0	0	0	0	12	172	752	1095	1512	1842	2059	2145	2084	1876	1541	1127	664	232	10	0	0	0	0	17122.	24	
10	0	0	0	0	0	12	230	662	1086	1490	1816	2000	1956	1954	1525	1349	1032	600	217	8	0	0	0	0	15945.	24	
11	0	0	0	0	0	9	218	638	1054	1459	1793	2007	2062	1975	1797	1492	1003	600	191	8	0	0	0	0	16303.	24	
12	0	0	0	0	0	8	226	625	1050	1452	1779	1986	2055	1969	1786	1481	1069	632	219	11	0	0	0	0	16349.	24	
13	0	0	0	0	0	6	221	655	1078	1462	1775	1991	2054	2001	1807	1390	1068	612	207	11	0	0	0	0	16338.	24	
14	0	0	0	0	0	9	216	633	1064	1475	1763	1858	2087	1835	1516	1412	921	437	108	5	0	0	0	0	15340.	24	
15	0	0	0	0	0	3	91	438	903	1092	1457	1665	1792	1783	1683	1279	847	650	277	13	0	0	0	0	13974.	24	
16	0	0	0	0	0	8	205	611	1017	1413	1714	1959	1311	1883	1725	1436	1085	652	184	17	0	0	0	0	15222.	24	
17	0	0	0	0	0	7	213	470	930	1308	1646	1913	1329	744	275	74	100	104	70	14	0	0	0	0	9197.	24	
18	0	0	0	0	0	13	195	562	973	1355	1615	1834	1887	1646	1485	383	351	380	70	4	0	0	0	0	12753.	24	
19	0	0	0	0	0	18	115	335	696	863	1097	1149	1763	1080	1161	639	324	252	62	4	0	0	0	0	9548.	24	
20	0	0	0	0	0	9	175	534	957	1351	1625	1608	1611	1192	1064	1166	582	103	38	10	0	0	0	0	12025.	24	
21	0	0	0	0	0	20	218	435	834	1393	1693	1699	1870	1481	1348	1129	938	633	238	12	0	0	0	0	13942.	24	
22	0	0	0	0	0	17	214	600	989	1342	1015	477	167	226	395	242	100	102	82	4	0	0	0	0	5973.	24	
23	0	0	0	0	0	16	168	285	569	531	709	1083	1117	855	263	63	142	74	107	33	0	0	0	0	6014.	24	
24	0	0	0	0	0	9	137	304	245	357	696	778	1073	1110	1532	1320	786	723	283	25	0	0	0	0	9379.	24	
25	0	0	0	0	0	32	260	442	1023	1393	1531	1237	1229	880	74	390	195	288	189	25	0	0	0	0	9189.	24	
26	0	0	0	0	0	8	58	198	389	385	835	1262	941	1878	1728	1350	644	474	162	21	0	0	0	0	10337.	24	
27	0	0	0	0	0	26	293	562	390	382	1021	1116	951	857	1382	1312	1135	678	217	21	0	0	0	0	10342.	24	
28	0	0	0	0	0	13	258	647	1046	1403	1598	1586	1992	1721	1522	1088	985	582	262	17	0	0	0	0	14719.	24	
29	0	0	0	0	0	21	188	625	995	1291	1455	1500	1211	1511	1675	1522	1163	701	186	22	0	0	0	0	14066.	24	
30	0	0	0	0	0	13	248	648	1043	1352	1206	1898	1503	1327	1624	1312	759	292	177	32	0	0	0	0	13440.	24	
31	0	0	0	0	0	25	200	651	1086	1461	1745	1903	1928	1109	1191	1089	1101	263	183	22	0	0	0	0	13959.	24	
AV	0	0	0	0	0	12	186	532	900	1215	1466	1617	1589	1445	1357	1054	764	467	173	13	0	0	0	0	12789.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 127.

		ATLANTA (GA TECH)										YEAR 1982										MONTH 5					
		DIFFUSE HORIZ. KJ/M2																									
D A Y		HOUR																								T O T L	H R
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	4	151	346	481	514	833	1126	1514	1578	1438	1166	976	645	279	15	0	0	0	0	0	11167.	24
2	0	0	0	0	0	2	163	448	568	707	846	950	1348	1295	1210	1172	799	477	234	19	0	0	0	0	0	10238.	24
3	0	0	0	0	0	4	153	377	576	722	821	1075	1082	966	941	851	811	473	218	18	0	0	0	0	0	9089.	24
4	0	0	0	0	0	3	151	391	586	743	874	1205	1527	1669	1362	1153	858	673	289	19	0	0	0	0	0	11505.	24
5	0	0	0	0	0	4	171	467	690	880	1022	1342	1401	1345	1427	1208	858	586	250	22	0	0	0	0	0	11672.	24
6	0	0	0	0	0	11	261	611	944	1327	1385	1742	1868	1751	1597	1348	1200	575	234	18	0	0	0	0	0	14873.	24
7	0	0	0	0	0	11	239	483	921	1372	1659	1803	1409	991	698	314	282	129	105	13	0	0	0	0	0	10431.	24
8	0	0	0	0	0	7	172	492%	606	1401	1561	1404	1348	820	551	536	633	387	200	20	0	0	0	0	0	10138.	24
9	0	0	0	0	0	10	205	477	415	453	467	482	499	489	495	486	429	335	202	25	0	0	0	0	0	5470.	24
10	0	0	0	0	0	11	160	297	386	455	551	888	1312	1282	1495	1052	681	474	233	25	0	0	0	0	0	9303.	24
11	0	0	0	0	0	9	160	315	425	502	540	564	606	640	678	639	549	417	223	32	0	0	0	0	0	6300.	24
12	0	0	0	0	0	15	178	288	391	476	542	579	611	631	597	567	489	385	219	33	0	0	0	0	0	6001.	24
13	0	0	0	0	0	14	167	305	407	493	593	674	727	728	704	659	571	435	229	34	0	0	0	0	0	6748.	24
14	0	0	0	0	0	13	183	350	446	518	607	840	954	915	855	806	699	553	213	25	0	0	0	0	0	7979.	24
15	0	0	0	0	0	10	168	621	1041	1443	1671	1469	1315	1616	1267	1118	883	662	404	46	0	0	0	0	0	13736.	24
16	0	0	0	0	0	18	205	406	563	750	834%	1043%	1175	1293	1213%	1080%	905%	679	321	46	0	0	0	0	0	10530.	24
17	0	0	0	0	0	13	338%	522	808%	1029%	1296	1605	1331%	1057	543	145	195	181	112	17	0	0	0	0	0	9267.	24
18	0	0	0	0	0	20	235	509	789	1048	1270	1567	1647	1603	1625	677	594	612	127	12	0	0	0	0	0	12336.	24
19	0	0	0	0	0	13	169	500	981	1245	1653	1860	2053	1669	1815	899	605	484	133	16	0	0	0	0	0	14100.	24
20	0	0	0	0	0	16	245	635	973	1219	1426	1642	1821	1623	1752	1561	871	204	76	15	0	0	0	0	0	14079.	24
21	0	0	0	0	0	24	253	623	924	1006	1140	1352	1550	1347	1249	962	753	506	272	39	0	0	0	0	0	12000.	24
22	0	0	0	0	0	23	270	527	722	1008	1196	679	330	440	720	435	205	222	165	14	0	0	0	0	0	6957.	24
23	0	0	0	0	0	23	257	484	963	939	1258	1665	1811	1468	539	133	249	133%	166	38	0	0	0	0	0	10132.	24
24	0	0	0	0	0	22	241	510	449	661	1221	1350	1729	1845	1252	807	822	715	333	50	0	0	0	0	0	12006.	24
25	0	0	0	0	0	35	279	438	550	759	1293	1175	1425	1035	136	698	348	505	316	43	0	0	0	0	0	9037.	24
26	0	0	0	0	0	13	107	338	678	705	1364	1767	1611	2178	1523	1040	741	620	294	43	0	0	0	0	0	13020.	24
27	0	0	0	0	0	38	364	599	561	663	1564	1776	1500	1344	1470	1125	936	508	314	53	0	0	0	0	0	12814.	24
28	0	0	0	0	0	20	214	390	525	655	994	1242	1365	1443	1367	1238	973	611	322	53	0	0	0	0	0	11410.	24
29	0	0	0	0	0	29	224	511	789	1033	1181	1476	1612	1408	1148	1073	848	489	251	56	0	0	0	0	0	12128.	24
30	0	0	0	0	0	25	199	353	485	806	1162	1266	1386	1354	1418	1138	987%	520	313	62	0	0	0	0	0	11473.	24
31	0	0	0	0	0	33	231	439	616	708	733	724	705	1097	1028	942	925	507	255	44	0	0	0	0	0	8996.	24
AV	0	0	0	0	0	16	210	456	654	847	1086	1237	1309	1255	1100	872	699	475	236	31	0	0	0	0	0	10482.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 128.

		ATLANTA (GA TECH)										YEAR 1982		MONTH 5		LAT. TILTED KJ/M2											
D A Y	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	9	131%	667	1465	2217	2725	3458	2811	2022	2675	1389	1094	673	219%	17	0	0	0	0	21572.	24	
2	0	0	0	0	0	10	120	642	1383	2151	2878	3099	2690	1857	2572	1224	1446	742	199	18	0	0	0	0	21029.	24	
3	0	0	0	0	0	11	132	627	1385	2159	2831	3249	3355	3420	2953	2382	1544	772	200%	19	0	0	0	0	25039.	24	
4	0	0	0	0	0	12	134	619	1355	2100	2743	2825	2950	2593	1835	2038	1080	768	214%	20	0	0	0	0	21285.	24	
5	0	0	0	0	0	12	139	608	1337	2078	2652	2666	2816	2098	2905	1603	974	703	195%	20	0	0	0	0	20811.	24	
6	0	0	0	0	0	13	205%	572	959	1551	1711	2447	2752	2887	2102	1584	1200	551	163	21	0	0	0	0	18719.	24	
7	0	0	0	0	0	14	132%	406	1107	1629	1898	1810	1259	850	574	254	231	88	73	21	0	0	0	0	10397.	24	
8	0	0	0	0	0	15	136%	714	1395	1663	1915	2835	3142	3570	3164	2413	1631	776	201	22	0	0	0	0	23590.	24	
9	0	0	0	0	0	16	160%	811	1519	2329	2996	3441	3608	3490	3082	2422	1631	799	191	23	0	0	0	0	26516.	24	
10	0	0	0	0	0	17	145	691	1488	2254	2868	3243	3206	3214	2465	2074	1454	724	196%	23	0	0	0	0	24061.	24	
11	0	0	0	0	0	17	147%	664	1428	2187	2862	3300	3447	3278	2938	2317	1445	740	183	25	0	0	0	0	24978.	24	
12	0	0	0	0	0	18	164%	662	1451	2206	2853	3273	3423	3273	2333	2334	1550	768	194%	27	0	0	0	0	25130.	24	
13	0	0	0	0	0	20	157%	704	1471	2187	2799	3255	3417	3352	2977	2211	1555	751	193%	27	0	0	0	0	25075.	24	
14	0	0	0	0	0	21	158%	676	1449	2204	2785	2999	3418	3049	2485	2210	1364	604	159%	28	0	0	0	0	23610.	24	
15	0	0	0	0	0	22	126	558	1289	1658	2299	2704	3014	2958	2792	2048	1292	852	315%	33	0	0	0	0	21959.	24	
16	0	0	0	0	0	23	169%	669	1392	2134	2743	3203	2271	3095	2303	2231	1578	840	272%	38	0	0	0	0	23459.	24	
17	0	0	0	0	0	25	214%	588	1275	1931	2553	3006	2092	1178	399	95	134	128	84	34	0	0	0	0	13738.	24	
18	0	0	0	0	0	27	188%	635	1315	2020	2543	2966	3101	2705	2289	605	507	513	107	37	0	0	0	0	19558.	24	
19	0	0	0	0	0	28	135	418	936	1267	1667	1903	2771	1755	1831	1008	526	379	92	38	0	0	0	0	14654.	24	
20	0	0	0	0	0	28	121%	649	1302	1983	2499	2572	2580	1847	1644	1764	861	182	61	36	0	0	0	0	18200.	24	
21	0	0	0	0	0	29	200%	574	1150	2077	2675	2754	2968	2410	2197	1783	1348	757	219%	37	0	0	0	0	21175.	24	
22	0	0	0	0	0	29	218%	662	1318	1992	1591	732	267	392	664	301%	126	143	126	38	0	0	0	0	8599.	24	
23	0	0	0	0	0	30	192%	407	847	837	1123	1737	1801	1338	371	108	199	79	129%	42	0	0	0	0	9242.	24	
24	0	0	0	0	0	30	184%	417	366	567	1043	1210	1747	1739	2481	2099	1094	793%	238%	39	0	0	0	0	14052.	24	
25	0	0	0	0	0	33	208%	485%	1338	2065	2321	1916	1924	1027%	129	565%	294	429	248%	44	0	0	0	0	13026.	24	
26	0	0	0	0	0	31	87	271	583	622	1346	2034	1553	2941	2753	2050	913	634	207%	43	0	0	0	0	16068.	24	
27	0	0	0	0	0	36	274%	644	522	580	1549	1760	1494	1451	2169	1960	1593	791	237%	42	0	0	0	0	15102.	24	
28	0	0	0	0	0	32	174%	655	1369	2054	2459	2511	3217	2765	2372	1650	1400	717	245%	43	0	0	0	0	21659.	24	
29	0	0	0	0	0	31	166%	678	1310	1876	2292	2400	1953	2482	2698	2309	1644	808	193%	43	0	0	0	0	20883.	24	
30	0	0	0	0	0	31	161%	642	1365	2000	1944	3020	2481	2194	2530	2025	1107	423	232%	47	0	0	0	0	20204.	24	
31	0	0	0	0	0	32	176%	663%	1435	2138	2737	3102	3183	1883	1945	1688	1585	373	198%	42	0	0	0	0	21181.	24	
AV	0	0	0	0	0	23	167	602	1236	1830	2319	2624	2604	2358	2185	1637	1110	591	187	32	0	0	0	0	19502.		
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 129.

ATLANTA IGA TECH1 YEAR 1982 MONTH 5

INFRARED 10 KJ/M2

D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	113	114	114	114	113	114	123%	131	134%	130%	126%	125%	129%	137	135%	142	143	142	143	136	138	134	132	129	3090.	24
2	131	129	126	132	133	130	132	136	137	135%	131%	128	130	132%	133	146	139	137	138	130	132	136	145	137	3218.	24
3	124	123	122	121	120	121	128	133	138	138	132%	133	131	130	131	135	140	133	135	127	125	122	121	120	3089.	24
4	120	118	117	116	117	117	125	133	138	139	138%	140	142	139	149	144	147	151	147	136	134	133	132	131	3201.	24
5	130	131	144	137	129	128	131	140	145	145	140%	138	140	141	141	147	149	142	139	132	131	130	129	129	3286.	24
6	131	130	127	127	126	123	134	139	141	145	146	145	144	142	153	152	153	143	147	139	135	135	135	130	3335.	24
7	129	130	129	127	127	129	139	145	145	145	146	148	153	155	154	150	148	148	149	146	146	146	148	147	3428.	24
8	143	144	146	144	144	142	138	138	134	143%	132	129	130%	123	119	127	132	132	131	124	120	119	119	120	3173.	24
9	119	119	118	119	121	116	124	137	137	133	128	123%	121%	122%	127%	131%	135	137	136	129	126	124	123	122	3028.	24
10	119	118	117	116	116	118	128	138	142	141	136	133%	134%	134%	141	143	144	145	142	133	128%	127	126%	126%	3144.	24
11	124%	123	121%	119	118	119	130	138	142	141	138	133%	134%	135%	138%	143	147	148	146	138%	135%	135	134	131	3214.	24
12	128%	127%	126	126	124	125	139	148	149	144	140	136	138%	138%	130	144	147	149	147	140	137	135%	133%	133%	3293.	24
13	132	129	128	126	124	125	136	144	146	144	141	136%	135%	136%	139	143	145	145	145	138	135	133	131	130	3266.	24
14	129%	126%	126%	125%	123%	125%	134	142	145	145	141	136%	137%	138%	139%	143	146	146	146	144	138%	133%	134%	133%	3276.	24
15	132%	134%	133%	134	135	135	139	146	151	151	149	145	138%	143	145	151	153	152	151	143	142	142	137	134	3414.	24
16	134	133	131	130	130	131	140	147	150	150	145	144	149	145	147	151	153	154	150	148	146	149	147	144	3448.	24
17	141	136	136	135	136	138	145	149	153	152	149	148	155%	162	161	155	150	143	149	147	148	144	143	136	3513.	24
18	139	134	134	134	130	131	137	145	148	148	145	144	144	150	156	154	152	148	151	148	147	143	141	143	3446.	24
19	139	133	130	129	132	136	140	145	151	152	154	155	147	156	155	153	158	156	157	152	150	139	136	135	3489.	24
20	135	132	131	131	131	132	137	143	146	146	147	149	153	153%	159	156	156	155	149	144%	145	139	137	139	3447.	24
21	142	137	137	133	132	132	136%	145	149	147	145	147	148	154	150	152	154	155	153	148	145	143%	141	141	3464.	24
22	140	140	140	138	138	139	145	154	158	157	161	166	151%	156%	157	157	152	151	150	148	137	138	137	141	3552.	24
23	146	141	139	139	137	137	143	152	156	159	158	155	156	159	158	153	154%	150	148	144	147	144	145	146	3567.	24
24	143	136	141	143	143	147	151	153	154	154	156	157	156	157	138	147	161	161	154	144	141	141	140	140	3558.	24
25	138	139	146	138	135	135	143	148	153	153	154	157	153	145	154%	152	154	151	150	149	145	145	139	136	3516.	24
26	138	138	149	151	150	150	152	154	156	157	155	152%	155%	148	146	150	153	152	151	148	144	142	142	142	3576.	24
27	141	144	140	137	139	142	147	153	160	158	158	159	162	162	156	158	159	159	159	149	147	150	153	151	3642.	24
28	147	144	142	141	140	141	151	157	159	156	157	149%	149%	155	160	164	165	164	162	157	154	154	153	150	3669.	24
29	147	148	146	144	143	143	150	158	162	160	159	149	152	152	159%	164	165	163	161	155	153	152	151	151	3694.	24
30	149	147	146	145	145	145	155%	161	163	160	162	155	162	153	150	163	170	165	164	164	150	153	157	148	3743.	24
31	146	142	137	135	138	138	143	152	153	150	145	141	144%	150	155	162%	163	157%	159	151	145	152	149	152	3559.	24
AV	135	133	133	132	131	132	139	145	148	148	146	144	144	145	147	149	151	150	149	143	140	139	139	137	3398.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 130.

ATLANTA (GA TECH) YEAR 1982 MONTH 5  
ULTRAVIOLET KJ/M2

DAY	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	12	44	83	119	145	175	147	115	131	80	61	38	12	1	0	0	0	0	1162.	24	
2	0	0	0	0	0	0	10	40	76	109	144	161	138	101	128	78	76	43	16	1	0	0	0	0	1120.	24	
3	0	0	0	0	0	0	12	41	77	113	146	165	168	172	145	115	74	43	16	1	0	0	0	0	1289.	24	
4	0	0	0	0	0	0	12	39	73	107	133	142	147	133	101	100	64	35	13	1	0	0	0	0	1099.	24	
5	0	0	0	0	0	0	12	39	73	107	130	138	144	121	141	90	54	39	15	1	0	0	0	0	1104.	24	
6	0	0	0	0	0	0	13	37	64	89	100	132	147	150	111	89	69	39	14	1	0	0	0	0	1054.	24	
7	0	0	0	0	0	0	11	29	69	98	113	114	88	65	48	24	21	8	6	0	0	0	0	0	695.	24	
8	0	0	0	0	0	0	12	49	91	105	124	172	185	202	179	138	94	53	20	2	0	0	0	0	1424.	24	
9	0	0	0	0	0	1	15	50	91	134	171	193	200	190	165	130	89	51	19	2	0	0	0	0	1500.	24	
10	0	0	0	0	0	0	15	47	85	120	149	166	163	157	119	99	70	39	16	2	0	0	0	0	1248.	24	
11	0	0	0	0	0	0	15	45	80	114	149	172	178	163	144	114	73	42	16	2	0	0	0	0	1307.	24	
12	0	0	0	0	0	1	15	44	82	120	151	168	174	164	149	119	81	47	18	2	0	0	0	0	1334.	24	
13	0	0	0	0	0	1	16	47	81	110	136	164	174	173	154	117	83	46	18	2	0	0	0	0	1321.	24	
14	0	0	0	0	0	1	15	44	79	113	136	139	159	149	128	106	63	19%	2	0	0	0	0	0	1153.	24	
15	0	0	0	0	0	0%	0%	0%	2*	2*	116%	130%	99999*	21*	26%	17*	17*	10%	1%	0%	0	0	0	0	0	99999.*10	
16	0	0	0	0	0	0%	0%	0%	0%	99999*	117%	99999*	161%	20%	30%	45%	56%	37%	22%	7%	1%	0	0	0	0	99999.*9	
17	0	0	0	0	0	0%	0%	0%	0%	2%	99999*	93%	125%	101%	23%	8%	3%	8%	3%	3%	1%	0%	0	0	0	99999.*9	
18	0	0	0	0	0	0%	1%	2%	99999*	99999*	99999*	139%	20%	15%	3%	5%	8%	8%	2%	0%	0	0	0	0	0	99999.*9	
19	0	0	0	0	0	0%	1%	2%	2%	4%	6%	20%	43%	24%	26%	15%	11%	7%	4%	1%	0	0	0	0	0	99999.*9	
20	0	0	0	0	0	0%	3%	7%	99999*	95%	99999*	131%	135%	26%	29%	25%	16%	6%	2%	0%	0	0	0	0	0	99999.*9	
21	0	0	0	0	0	0%	0%	0%	0%	11%	99999*	8%	11%	19%	20%	18%	16%	12%	6%	1%	0	0	0	0	0	99999.*9	
22	0	0	0	0	0	0%	4%	8%	83%	97%	20%	11%	17%	31%	47%	27%	13%	13%	8%	0%	0	0	0	0	0	99999.*9	
23	0	0	0	0	0	1%	14%	29%	55%	57%	76%	104%	104%	86	33	12	20	9	10	2	0	0	0	0	0	99999.*16	
24	0	0	0	0	0	1	14	32	32	48	79	83	102	105	139	108	61	43	21	4	0	0	0	0	0	872.	24
25	0	0	0	0	0	2	20	44	86	118	125	109	115	94	14	50	25	33	18	2	0	0	0	0	0	854.	24
26	0	0	0	0	0	1	9	24	43	50	95	128	106	145%	36%	33%	38%	45	18	3	0	0	0	0	0	99999.*21	
27	0	0	0	0	0	2	20	50	32	43	94	110	78%	74	112	110	89	54	21	4	0	0	0	0	0	891.	24
28	0	0	0	0	0	2	20	51	87	114	111%	19%	148%	148	131	98	78	43	22	4	0	0	0	0	0	99999.*21	
29	0	0	0	0	0	2	17	49	81	110	132	141	120	141	143	112	78	43	20	4	0	0	0	0	0	1198.	24
30	0	0	0	0	0	2	20	46	84	120	122	163	141	136	135	112	64	34	18	3	0	0	0	0	0	1198.	24
31	0	0	0	0	0	2	19	53	97	137	165	182	185	124	124	106	90	33	14	3	0	0	0	0	0	1334.	24
AV	0	0	0	0	0	1%	15%	43%	75%	104%	130%	148%	146%	135%	122%	96%	66%	39%	16%	2%	0	0	0	0	0	1136.	3
HR	31	31	31	31	31	23	22	22	22	22	21	21	21	22	22	22	23	23	23	23	31	31	31	31	31	611	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 131.

ATLANTA (GA TECH) YEAR 1982 MONTH 5  
AVAILABLE SUNSHINE %

D A Y	HOUR																								AVG	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	47	100	100	100	84	96	82	39	95	44	24	42	4	0	0	0	0	0	64.24	
2	0	0	0	0	0	0	4	88	96	100	100	93	60	31	75	16	85	93%	50%	0	0	0	0	0	67.24	
3	0	0	0	0	0	0	36	100	100	100	100	98	94	100	98	100	98	100	69	0	0	0	0	0	89.24	
4	0	0	0	0	0	0	27	100	100	100	100	81	76	60	48	88	55	62	0	0	0	0	0	0	67.24	
5	0	0	0	0	0	0	0	91	100	100	99	73	71	45	93	44	26	95	15	0	0	0	0	0	63.24	
6	0	0	0	0	0	0	0	17	10	12	30	64	100	92	57	38	19	12	0	0	0	0	0	0	33.24	
7	0	0	0	0	0	0	0	1	44	29	20	0	0	0	0	0	0	0	0	0	0	0	0	0	7.24	
8	0	0	0	0	0	0	3	66	79	26	20	55	66	92	97	93	86	90	90	0	0	0	0	0	64.24	
9	0	0	0	0	0	0	9	99	100	100	100	100	100	100	100	100	100	100	86	0	0	0	0	0	88.24	
10	0	0	0	0	0	0	71	100	100	100	100	100	100	100	100	100	100	100	70	0	0	0	0	0	91.24	
11	0	0	0	0	0	0	66	100	100	100	100	100	100	100	100	100	100	97	99	51	0	0	0	0	89.24	
12	0	0	0	0	0	0	75	100	100	100	100	100	100	100	100	100	100	99	100	77	0	0	0	0	92.24	
13	0	0	0	0	0	0	75	100	100	100	100	100	100	100	100	100	93	100	100	67	0	0	0	0	90.24	
14	0	0	0	0	0	0	58	100	100	100	100	94	96	87	31	94	83	41	0	0	0	0	0	0	75.24	
15	0	0	0	0	0	0	0	11	55	17	64	80	92	95	90	77	67	95	41	0	0	0	0	0	57.24	
16	0	0	0	0	0	0	53	100	100	100	100	99	97	97	97	100	100	96	0	0	0	0	0	0	80.24	
17	0	0	0	0	0	0	0	56	100	100	100	97	56\$	16	0	0	0	0	0	0	0	0	0	0	37.24	
18	0	0	0	0	0	0	5	100	100	100	100	100	100	94	71	80	7	0	0	0	0	0	0	0	55.24	
19	0	0	0	0	0	0	0	1	13	15	0	1	60	12	10	16	0	0	0	0	0	0	0	0	9.24	
20	0	0	0	0	0	0	0	22	100	100	98	71	59	29	9	33	24	0	0	0	0	0	0	0	39.24	
21	0	0	0	0	0	0	14	10	52	98	100	78	80	64	63	69	87	100	62	0	0	0	0	0	63.24	
22	0	0	0	0	0	0	3	100	100	100	44	14	0	0	0	0	0	0	0	0	0	0	0	0	26.24	
23	0	0	0	0	0	0	0	0	0	0	0	12	7	1	0	0	0	0	0	0	0	0	0	0	2.24	
24	0	0	0	0	0	0	0	0	0	0	0	0	7	5	71	83	54	89	55	0	0	0	0	0	26.24	
25	0	0	0	0	0	0	39	55	99	97	79	46	40	23	0	0	0	0	0	0	0	0	0	0	35.24	
26	0	0	0	0	0	0	0	0	0	0	7	27	4	58	83	78	34	33	0	0	0	0	0	0	23.24	
27	0	0	0	0	0	0	30	61	12	0	8	7	8	9	50	67	87	100	14	0	0	0	0	0	32.24	
28	0	0	0	0	0	0	79	100	100	100	86	69	97	81	79	64	86	83	52	0	0	0	0	0	77.24	
29	0	0	0	0	0	0	20	84	100	96	82	62	27	63	78	89	97	100	37	0	0	0	0	0	67.24	
30	0	0	0	0	0	0	59	100	100	89	53	92	58	53	86	84	46	0	0	0	0	C	0	0	59.24	
31	0	0	0	0	0	0	32	100	100	100	100	99	94	37	47	56	80	0	14	0	0	0	0	0	61.24	
AV	0	0	0	0	0	0	26	67	76	74	70	68	64	57	64	59	56	56	28	0	0	0	0	0	56.	
HR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

GT 3% ERROR IN MONTHLY AVG:  
 DAILY AVG = 51.

Table 132.

ATLANTA (GA TECH) YEAR 1982 MONTH 6  
DIRECT NORMAL KJ/M2

DAY	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	2	3	1675	1805	2234	2409	2900	1978	2187	1881	1950	2168	1418	1259	340	0	0	0	0	24210.	24	
2	0	0	0	0	0	236	1652	2449	2829	3084	3229	3382	3344	3372	3213	3011	2661	2111	1233	257	0	0	0	0	36063.	24	
3	0	0	0	0	0	8	22	104	3	3	3	3	30	1108	2415	2243	1201	657	3	24	0	0	0	0	7829.	24	
4	0	0	0	0	0	2	3	5	3	3	3	3	12	166	3	8	3	343	38	0	0	0	0	0	601.	24	
5	0	0	0	0	0	2	15	41	10	1058	1780	1170	1661	1556	2208	2498	1402	1556	1137	190	0	0	0	0	16285.	24	
6	0	0	0	0	0	102	1071	2046	2550	2846	3008	3051	2977	2868	2810	2670	2517	2115	1336	272	0	0	0	0	32239.	24	
7	0	0	0	0	0	129	1216	2060	2504	2763	2919	2629	1950	1579	1302	1358	1029	2088	1385	208	0	0	0	0	25124.	24	
8	0	0	0	0	0	33	947	1481	2109	2416	2806	2640	2241	2605	2727	2574	2248	1861	1060	163	0	0	0	0	27916.	24	
9	0	0	0	0	0	43	665	1008	1799	2073	2270	2367	2463	2247	1825	1947	1948	1605	835	124	0	0	0	0	23219.	24	
10	0	0	0	0	0	30	141	771	1402	1996	2442	2445	2313	1670	1805	1629	1272	1529	1151	165	0	0	0	0	20760.	24	
11	0	0	0	0	0	32	541	1035	1690	2042	1117	1514	1595	2640	2682	2446	2183	1841	868	66	0	0	0	0	22290.	24	
12	0	0	0	0	0	2	330	359	339	983	1455	14	320%	88	8	49	49	68	421	73	0	0	0	0	4565.	24	
13	0	0	0	0	0	2	3	4	4	62	512	1628	1646	1676	1678	928	1210	882	307	20	0	0	0	0	10563.	24	
14	0	0	0	0	0	52	705	1489	1970	2254	2552	2665	2836	2214	2274	2211	1518	1413	906	162	0	0	0	0	25220.	24	
15	0	0	0	0	0	26*	430*	1178*	1643*	1741*	2201	1541*	1897*	1933	1945	1453	1298*	1175*	295*	7*	0	0	0	0	99999.	13	
16	0	0	0	0	0	125*	386*	249*	273*	1744*	1422*	1795*	2454	2013	1833	2232	2001	366	59	3	0	0	0	0	99999.	17	
17	0	0	0	0	0	2	4	55	19	13	160	19	7	114	561	914	508	718	652	80	0	0	0	0	3825.	24	
18	0	0	0	0	0	2	252	1407	2151	2048	1516	1348	1796	1824	1302	1464	1501	1556	1115	223	0	0	0	0	19505.	24	
19	0	0	0	0	0	88	1034	1903	2222	2436	2662	2814	2833	2893	2823	2593	2115	1517	765	98	0	0	0	0	28794.	24	
20	0	0	0	0	0	2	270*	538	1896	1529*	1163	1823	1806	1897	1828	1999	2102	1979	1412	244	0	0	0	0	20488.	24	
21	0	0	0	0	0	5*	741*	1095*	35*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	0	0	0	0	99999.	9	
22	0	0	0	0	0	9993*	9999*	9999*	9999*	9999*	9993*	648*	848	1568*	2288	678	1260	2398	2274	1055	155	0	0	0	0	99999.	18
23	0	0	0	0	0	2	547	1451	1935	2194	2327	1871	2026	2327	1645	2180	2033	1704	744	3	0	0	0	0	22990.	24	
24	0	0	0	0	0	49	793	1619	2087	2413	2760	2882	2974	1957	2729	2797	2620	2085	1276	360	0	0	0	0	29403.	24	
25	0	0	0	0	0	23	54	238	1613	1654	1203	1696	720	628	272	3	3	3	3	3	0	0	0	0	8116.	24	
26	0	0	0	0	0	25	628	966	784	683	1062	1401	1619	1149	1601	1381	265	821	7	3	0	0	0	0	12402.	24	
27	0	0	0	0	0	2	3	3	3	3	143	586	88	13	3	175	10	11	5	44	0	0	0	0	1094.	24	
28	0	0	0	0	0	2	3	8	54	203	263*	324	1369	822	269	147	205	1038	21	3	0	0	0	0	4731.	24	
29	0	0	0	0	0	2	4	4	54	4	83	221	781	1414	1709	965	205	649	707	3	0	0	0	0	6804.	24	
30	0	0	0	0	0	9	24	41	332	908	785	1012	1173	993	1069	1259	1174	223	3	3	0	0	0	0	9008.	24	
AV	0	0	0	0	0	34*	420*	875*	1237*	1450*	1586*	1602*	1663*	1656*	1630*	1598*	1377*	1218*	717*	119*	0	0	0	0	17193.	*	
HR	30	30	30	30	30	26	26	26	26	26	27	27	28	29	29	29	28	28	28	28	30	30	30	30	681		

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 133.

ATLANTA (GA TECH) YEAR 1982 MONTH 6

DIRECT (RG630) KJ/M2

D A Y	HOUR																								T O T L	H R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	2	4	1168	1180	1437	1502	1785	1209	1332	1162	1233	1406	973	969	303%	0	0	0	0	15664.	24	
2	0	0	0	0	0	209	1195	1546	1772	1931	1979	2044	2024	2044	1967	1887	1740	1485	1011	235	0	0	0	0	23069.	24	
3	0	0	0	0	0	11	22	86	4	4	4	4	15	662	1521	1462	808	459	4	28	0	0	0	0	5095.	24	
4	0	0	0	0	0	3	5	5	4	4	4	4	4	8	93	4	7	4	276	40	0	0	0	0	467.	24	
5	0	0	0	0	0	2	15	34	9	633	1131	743	1055	991	1395	1595	937	1119	922	183%	0	0	0	0	10815.	24	
6	0	0	0	0	0	100	883	1465	1701	1830	1897	1910	1880	1839	1802	1730	1657	1466	1041	255%	0	0	0	0	21456.	24	
7	0	0	0	0	0	124	962	1440	1642	1753	1830	1652	1231	976	808	852	663	1410	1044	192	0	0	0	0	16581.	24	
8	0	0	0	0	0	39	773	1068	1410	1558	1755	1625	1368	1597	1700	1625	1482	1318	864	165%	0	0	0	0	18348.	24	
9	0	0	0	0	0	47	584%	774	1283	1427	1514	1527	1563	1433	1191	1283	1348	1195	711	122%	0	0	0	0	16001.	24	
10	0	0	0	0	0	33	137	560%	983	1321	1545	1535	1422	1022	1125	1023	856	1075	903	160	0	0	0	0	13699.	24	
11	0	0	0	0	0	35	487%	814	1228	1400	742	989	1055	1715	1730	1647	1534	1353	724%	73	0	0	0	0	15526.	24	
12	0	0	0	0	0	3	297%	274	247	684	961	10	207	51	7	31	32	52	360%	75	0	0	0	0	3291.	24	
13	0	0	0	0	0	3	5	5	5	37	305	974	985	1019	1051	613	880	717%	277%	21	0	0	0	0	6895.	24	
14	0	0	0	0	0	51	614	1136	1389	1523	1656	1705	1760	1425	1494	1510	1144	1128	796%	164%	0	0	0	0	17497.	24	
15	0	0	0	0	0	27M	397M	951M	1227M	1279M	1504	1061M	1308M	1344	1381	1100%	1024M	919M	249M	9M	0	0	0	0	99999.	M13	
16	0	0	0	0	0	116M	317M	176M	187M	1098M	866M	1078M	1472	1216	1110	1364	1269	261	47	4	0	0	0	0	99999.	M17	
17	0	0	0	0	0	3	5	31	9	9	84	10	5	64	341	563	333	516	504	79	0	0	0	0	2555.	24	
18	0	0	0	0	0	3	202	989	1445	1355	1002	928	1196	1227	895	1008	1050	1137	904	208	0	0	0	0	13548.	24	
19	0	0	0	0	0	82	828	1343	1498	1563	1687	1766	1771	1793	1763	1667	1459	1152	677%	100%	0	0	0	0	19140.	24	
20	0	0	0	0	0	2	199%	396	1309	1030%	750	1151	1168	1231	1169	1316	1421	1371	1079	229	0	0	0	0	13822.	24	
21	0	0	0	0	0	6M	561M	745M	21M	9999M	9999M	9999M	9999M	9999M	9999M	9999M	9999M	9999M	9999M	9999M	9999M	0	0	0	0	99999.	M9
22	0	0	0	0	0	9999M	9999M	9999M	9999M	9999M	9999M	422M	543	994M	1444	437	794	1481	1469	775	138	0	0	0	0	99999.	M18
23	0	0	0	0	0	3	473	1125	1374	1493	1552	1246	1322	1531	1076	1458	1392	1240	630%	5	0	0	0	0	15920.	24	
24	0	0	0	0	0	49	635%	1226	1469	1618	1767	1829	1835	1195	1686	1758	1689	1476	1040	331%	0	0	0	0	19654.	24	
25	0	0	0	0	0	25	54	187	1194	1199	867	1184	494	436	196	4	4	4	4	4	0	0	0	0	5855.	24	
26	0	0	0	0	0	26	541	737	548	468	704	902	1027	736	1021	884	178	562	7	4	0	0	0	0	8344.	24	
27	0	0	0	0	0	2	4	4	4	4	59%	293%	55	9	4	77%	8	9	6	42	0	0	0	0	581.	24	
28	0	0	0	0	0	2	4	8	39	132	163%	195	853	517	218	105	145	747	18	4	0	0	0	0	3151.	24	
29	0	0	0	0	0	2	5	5	31	4	49	125	455	819	997	574	126	428	488	4	0	0	0	0	4111.	24	
30	0	0	0	0	0	9	24	36	261	649	554	703	798	685	750	890	871	175	4	4	0	0	0	0	6414.	24	
AV	0	0	0	0	0	33%	346%	633%	847%	966%	1021%	1014%	1044%	1047%	1038%	1036%	926%	868%	574%	113%	0	0	0	0	11508.	\$	
HR	30	30	30	30	30	26	26	26	26	26	27	27	28	29	29	29	28	28	28	28	30	30	30	30	681		

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 FLAGS:

- X - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 134.

		ATLANTA (GA TECH)																								YEAR 1982		MONTH 6	
		GLOBAL HORIZ.																								KJ/M2			
D A Y	HOUR																									TOTL	HR		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	20	85	1004	1673	2379	2989	3401	3123	3249	2621	2410	1988	1142	550	60	0	0	0	0	0	26694.	24		
2	0	0	0	0	0	35	449	1158	1895	2563	3126	3542	3643	3595	3247	2706	2007	1218	474	54	0	0	0	0	0	29723.	24		
3	0	0	0	0	0	15	255	680	532	546	390	27	655	2571	3042	2507	1504	803	288	41	0	0	0	0	0	13849.	24		
4	0	0	0	0	0	8	146	214	231	143	314	169	363	1098	1929	595	613	278	424	43	0	0	0	0	0	6568.	24		
5	0	0	0	0	0	14	223	524	667	1929	2770	2292	2947	2847	2999	2693	1570	1135	534	68	0	0	0	0	0	23211.	24		
6	0	0	0	0	0	32	431	1172	1918	2533	3209	3574	3680	3557	3238	2709	2060	1305	549	71	0	0	0	0	0	30145.	24		
7	0	0	0	0	0	38	423	1101	1827	2523	3043	3300	3173	2992	2595	2270	1542	1285	513	51	0	0	0	0	0	25675.	24		
8	0	0	0	0	0	23	443	960	1738	2366	3018	3352	3354	3378	3092	2612	1925	1195	491	60	0	0	0	0	0	23007.	24		
9	0	0	0	0	0	31	350	836	1617	2244	2785	3175	3407	3294	2821	2507	1890	1208	449	53	0	0	0	0	0	26668.	24		
10	0	0	0	0	0	37	261	881	1501	2358	2911	3317	3356	2883	2684	2177	1616	1193	526	60	0	0	0	0	0	25761.	24		
11	0	0	0	0	0	24	368	978	1681	2382	2029	2734	2843	3538	3296	2679	1979	1233	467	45	0	0	0	0	0	26274.	24		
12	0	0	0	0	0	25	452	815	1167	2181	2715	477	1574	1836	1273	1387	1238	856	431	54	0	0	0	0	0	16481.	24		
13	0	0	0	0	0	9	33	313	603	1032	1702	2914	3001	3072	2738	1865	1732	1023	371	62	0	0	0	0	0	20520.	24		
14	0	0	0	0	0	23	359	1005	1696	2367	2950	3292	3570	3310	3148	2600	1984	1278	503	70	0	0	0	0	0	28161.	24		
15	0	0	0	0	0	25	305	905	1620	2159	2872	2833	3307	3256	3026	2339	1700	1051	336	38	0	0	0	0	0	99999.	13		
16	0	0	0	0	0	32	299	702	998	2273	2352	2535	3441	3300	2954	2657	1939	710	252	23	0	0	0	0	0	99999.	17		
17	0	0	0	0	0	11	104	569	839	1087	1728	1359	1441	1716	2116	2069	1352	1093	566	59	0	0	0	0	0	16157.	24		
18	0	0	0	0	0	15	270	1023	1737	2331	2491	2691	3181	3189	2561	2266	1697	1238	551	75	0	0	0	0	0	25316.	24		
19	0	0	0	0	0	33	386	1049	1780	2423	3019	3425	3558	3501	3213	2658	1943	1176	469	54	0	0	0	0	0	28688.	24		
20	0	0	0	0	0	8	371	734	1696	2042	2387	3225	3380	3347	2910	2656	2055	1308	583	66	0	0	0	0	0	26768.	24		
21	0	0	0	0	0	8	316	801	672	959	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999	99999.	9		
22	0	0	0	0	0	9999	9999	9999	9999	9999	2225	2140	2761	3382	1621	2390	2114	1316	466	53	0	0	0	0	0	0	99999.	18	
23	0	0	0	0	0	18	305	944	1632	2274	2831	2368	3178	3382	2415	2485	1863	1200	448	32	0	0	0	0	0	25875.	24		
24	0	0	0	0	0	19	330	970	1692	2344	2965	3333	3593	3259	3236	2700	2065	1272	527	76	0	0	0	0	0	28380.	24		
25	0	0	0	0	0	18	235	713	1659	2254	2614	3094	2107	2027	1374	439	309	352	71	12	0	0	0	0	0	17278.	24		
26	0	0	0	0	0	17	326	844	1376	1791	2338	2671	2977	2532	2633	2165	1133	947	207	14	0	0	0	0	0	21971.	24		
27	0	0	0	0	0	7	42	204	286	261	1377	2494	1186	750	262	1524	741	391	290	68	0	0	0	0	0	9884.	24		
28	0	0	0	0	0	7	39	376	727	1191	1626	2061	2898	1995	1506	1071	1119	1074	203	45	0	0	0	0	0	15940.	24		
29	0	0	0	0	0	23	139	365	1005	653	1258	1895	2218	2985	2757	1883	958	808	487	66	0	0	0	0	0	17510.	24		
30	0	0	0	0	0	24	212	647	1251	2003	2195	2533	2801	2596	2412	2291	1782	389	13	12	0	0	0	0	0	21161.	24		
AV	0	0	0	0	0	21	273	773	1326	1858	2357	2569	2765	2843	2542	2187	1597	1015	418	52	0	0	0	0	0	22594.	5		
HR	30	30	30	30	30	26	26	26	26	26	27	27	28	29	29	29	28	28	28	28	30	30	30	30	30	30	681		

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 135.

		ATLANTA (GA TECH)										YEAR 1982					MONTH 6									
		GLOBAL (RG630) KJ/M2																								
D A Y	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	22	67	598	1000	1394	1737	1960	1788	1844	1479	1373	1143	660	332	36	0	0	0	0	15431.	24
2	0	0	0	0	0	30	308	745	1169	1553	1858	2080	2127	2082	1869	1558	1162	716	296	36	0	0	0	0	17590.	24
3	0	0	0	0	0	18	171	421	315	317	218	22	371	1485	1767	1451	867	472	183	37	0	0	0	0	8114.	24
4	0	0	0	0	0	9	104	133	131	83	171	91	196	605	1112	382	343	157	256	24	0	0	0	0	3796.	24
5	0	0	0	0	0	16	138	315	389	1128	1614	1311	1699	1637	1725	1547	894	668	329	50	0	0	0	0	13461.	24
6	0	0	0	0	0	36	309	755	1192	1596	1922	2124	2169	2038	1890	1579	1206	775	339	51	0	0	0	0	18040.	24
7	0	0	0	0	0	40	307	715	1128	1503	1813	1958	1898	1762	1518	1331	904	767	316	34	0	0	0	0	16003.	24
8	0	0	0	0	0	27	316	619	1060	1424	1768	1944	1941	1949	1783	1509	1124	707	294	36	0	0	0	0	16502.	24
9	0	0	0	0	0	29	217	535	1002	1358	1672	1862	1979	1909	1636	1451	1104	721	271	31	0	0	0	0	15818.	24
10	0	0	0	0	0	33	176	534	893	1380	1675	1901	1900	1618	1512	1216	925	696	319	38	0	0	0	0	14815.	24
11	0	0	0	0	0	23	253	627	1037	1420	1174	1607	1650	2057	1914	1560	1160	736	289	30	0	0	0	0	15534.	24
12	0	0	0	0	0	24	304	496	682	1273	1571	268	886	1014	692	778	710	494	254	37	0	0	0	0	9490.	24
13	0	0	0	0	0	7	51	172	331	577	955	1658	1687	1739	1542	1043	1004	619	221	40	0	0	0	0	11646.	24
14	0	0	0	0	0	22	241	639	1050	1424	1756	1954	2072	1901	1825	1524	1206	785	308	43	0	0	0	0	16750.	24
15	0	0	0	0	0	20	205	592	999	1312	1637	1651	1931	1852	1762	1361	1002	615	185	23	0	0	0	0	99999.	*13
16	0	0	0	0	0	25	190	423	584	1311	1330	1608	1951	1867	1669	1504	1096	401	138	12	0	0	0	0	99999.	*17
17	0	0	0	0	0	12	68	324	505	602	969	748	794	960	1207	1173	768	637	344	40	0	0	0	0	9151.	24
18	0	0	0	0	0	9	151	624	1044	1383	1444	1569	1847	1837	1484	1298	974	731	332	45	0	0	0	0	14772.	24
19	0	0	0	0	0	28	263	655	1080	1423	1759	1980	2044	1999	1831	1519	1124	696	287	33	0	0	0	0	16735.	24
20	0	0	0	0	0	7	223	439	1014	1201	1388	1873	1956	1928	1654	1522	1185	758	345	38	0	0	0	0	15530.	24
21	0	0	0	0	0	7	213	497	384	999	999	999	999	999	999	999	999	999	999	999	0	0	0	0	99999.	*9
22	0	0	0	0	0	9999	9999	9999	9999	9999	1301	1224	1587	1951	923	1366	1199	752	264	27	0	0	0	0	99999.	*18
23	0	0	0	0	0	13	199	604	1006	1372	1693	1692	1884	2006	1385	1463	1097	713	272	17	0	0	0	0	15417.	24
24	0	0	0	0	0	17	230	627	1042	1421	1759	1984	2112	1888	1866	1556	1196	762	324	47	0	0	0	0	16829.	24
25	0	0	0	0	0	17	163	436	1002	1343	1543	1806	1191	1127	748	233	178	204	46	4	0	0	0	0	10042.	24
26	0	0	0	0	0	16	216	510	793	1041	1341	1514	1681	1412	1473	1205	626	532	125	9	0	0	0	0	12494.	24
27	0	0	0	0	0	4	31	116	150	132	761	1418	639	391	139	818	414	220	179	47	0	0	0	0	5460.	24
28	0	0	0	0	0	3	33	216	405	567	908	1149	1623	1116	829	575	628	622	109	30	0	0	0	0	8914.	24
29	0	0	0	0	0	17	90	208	565	355	690	1058	1228	1668	1523	1043	528	461	280	50	0	0	0	0	9765.	24
30	0	0	0	0	0	16	117	380	742	1173	1270	1453	1615	1473	1363	1303	1032	224	12	13	0	0	0	0	12186.	24
AV	0	0	0	0	0	19	134	479	797	1099	1375	1490	1590	1629	1452	1250	921	596	252	33	0	0	0	0	13165.	\$
HR	30	30	30	30	30	26	26	26	26	26	27	27	28	29	29	29	28	28	28	28	30	30	30	30	681	

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 FLAGS.  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 136.

ATLANTA (GA TECH) YEAR 1962 MONTH 6

DIFFUSE HORIZ. KJ/M2

DAY	HOUR																								TOTL	HR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	43	118	379%	632	734	888	651	1169	1133	961	930	691	540	308	56	0	0	0	0	9234.	24
2	0	0	0	0	0	25	149	238	300	330	364	372	409	399	438	453	445	381	250%	63	0	0	0	0	4615.	24
3	0	0	0	0	0	22	252	639	543	561	413	51	687%	1486	891	794	787	519	325	62	0	0	0	0	8042.	24
4	0	0	0	0	0	22	185	251	264	174	335	197	423	1095	1740	710	620	304	376	62	0	0	0	0	6757.	24
5	0	0	0	0	0	23	232	511	659	1107	1187	1160	1291	1329	1029	768	712	515	298	75	0	0	0	0	10897.	24
6	0	0	0	0	0	29	235	391	480	558	627	692	760	814	749	672	544	425	269	74	0	0	0	0	7317.	24
7	0	0	0	0	0	36	206	324	417	505	550	329	1255	1460	1425	1214	916	427	232	61	0	0	0	0	9856.	24
8	0	0	0	0	0	29	276	390	547	605	610	360	1163%	904%	704	669	596	447	291%	83	0	0	0	0	8174.	24
9	0	0	0	0	0	38	240	452	617	746	849	954	1017	1154	1218	1033	738	562	309%	81	0	0	0	0	10007.	24
10	0	0	0	0	0	49	260	488%	715	904	813	1016	1068	1263	1090	927	830	572	290	80	0	0	0	0	10385.	24
11	0	0	0	0	0	33	284	584	741	896	1105	1295	1294	1015	922	821	676	477	293	72	0	0	0	0	10509.	24
12	0	0	0	0	0	39	404	664	962	1424	1436	504	1224	1708	1263	1343	1210	849	361	74	0	0	0	0	13463.	24
13	0	0	0	0	0	11	92	314	599	971	1228	1329	1352	1429	1244	1149	986	666	331	86	0	0	0	0	11787.	24
14	0	0	0	0	0	32	237	443	593	750	773	790	806	1196	1124	910	1074	705	328	91	0	0	0	0	9822.	24
15	0	0	0	0	0	33*	241*	468*	704*	922*	1009	1391*	1460*	1421	1317	1246	956*	599*	306*	79*	0	0	0	0	99999.	*13
16	0	0	0	0	0	35*	251*	632*	841*	996*	1116*	1118*	1020	1343	1325	939	724	576*	272	51	0	0	0	0	99999.	*17
17	0	0	0	0	0	23	131	549	869	1065	1555	1330	1421	1581	1600	1356	1040	805	461	89	0	0	0	0	13877.	24
18	0	0	0	0	0	23	234	472	544	864	1197	1411	1421	1434	1416	1149	803	606	327%	94	0	0	0	0	11994.	24
19	0	0	0	0	0	42	219	355	554	665	747	767	775	711	692	657	656	543	327	77	0	0	0	0	7788.	24
20	0	0	0	0	0	19*	188*	519	646	1003*	1360	1484	1594	1508	1259	1117	781	473	279%	79	0	0	0	0	12391.	*22
21	0	0	0	0	0	17*	137*	440*	662*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	0	0	0	0	99999.	*9
22	0	0	0	0	0	9999*	9999*	9999*	9999*	9999*	1624*	1332	1242*	1153	1063	1366	637	344	248	66	0	0	0	0	99999.	*18
23	0	0	0	0	0	26	209	417	564	694	853	1110	1193	1151	950	825	641	468	312%	73%	0	0	0	0	9508.	24
24	0	0	0	0	0	24	206	387	546	617	620	654	726	1337%	823	560	475	394	266%	85	0	0	0	0	7724.	24
25	0	0	0	0	0	31	259	628	778	1080	1586	1518	1427	1431	1161	511	355	400	97	31	0	0	0	0	11293.	24
26	0	0	0	0	0	30	243	520	921	1304	1410	1342	1383	1461	1209	1102	979	591%	243	41%	0	0	0	0	12750.	24
27	0	0	0	0	0	12	72	237	314	314	1226	1903	1111	773%	317	1377	798	418	320	90	0	0	0	0	9261.	24
28	0	0	0	0	0	13	76	394	722	1051	1391*	1732	1532	1214	1205	964	998	634	230	78	0	0	0	0	12233.	24
29	0	0	0	0	0	33	187	412	975	684	1185	1684	1436	1575	1197	1102	847	575	328	89	0	0	0	0	12310.	24
30	0	0	0	0	0	35	231	635	1046	1321	1511	1577	1647	1626	1446	1330	1054	306	39%	27	0	0	0	0	13832.	24
AV	0	0	0	0	0	29%	210%	146%	636%	804%	994%	1057%	1138%	1244%	1096%	965%	772%	519%	286%	71%	0	0	0	0	10268.	\$
HR	30	30	30	30	30	25	25	26	25	26	27	27	28	29	29	29	28	28	28	28	30	30	30	30	679	

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FLAGS:

- \* - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS
- # - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS
- \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS OR BY SUMMATIONS HAVING UNAVAILABLE HOURS



Table 138.

ATLANTA (GA TECH) YEAR 1982 MONTH 6  
 INFRARED 10 KJ/M2

DAY	HOUR																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	152	146	152	154	147	145	148	146	145	141	139	132	139%	145%	147	149	149	150	149	139	134	131	128	125	3434.	24	
2	123	122	120	118	118	120	131	135	136	135%	129%	125%	127%	131%	133%	139	144	148	150	143	136%	136	136	139	3172.	24	
3	136	133%	133	135	140	142	147	152	158	159	159	152	148%	143	141	148	153	154	156	154	146	150	146	141	3525.	24	
4	144	144	145	149	149	149	153	155	157	157	158	157	155	153	152	157	158	158	152	145	146	146	148	153	3639.	24	
5	149	140	149	156	154	155	152	155	158	152	146	140	138%	136%	140	140	146	146	144	135	130	126	124	121	3433.	24	
6	120	118	117	116	115	116	126	133	133	129	122%	124%	119%	122%	127%	133	136	138	140	134	129	128	125	123	3024.	24	
7	122	123	122	121	120	123	134	139	144	141	137	135%	138	141	145	146	147	147	148	139	131	129	128%	127	3227.	24	
8	127	127	128	125	126	128	141	147	151	150	146	141	142%	144	147	150	154	156	156	149	143%	141	140	139	3398.	24	
9	138%	137%	136%	136%	134	136	147	153	158	158	155	149	147	150	155	156	157	159	158	150	143%	143	143	139	3537.	24	
10	137	137	138	137	139	142	149	155%	160	160	154	152	149	152%	157	156	160	159	158	150	145	142	141	139	3566.	24	
11	138	136	135	134	133	135	143	149	154	152	154	151%	144%	140%	144	147	150	151	149	144	140%	140%	140%	142	3445.	24	
12	142	140	138	139	139	133	148	149	152	155	151	159	149	154	158	157	157	155	148	146	146	141	149	148	3558.	24	
13	146	145	145	146	147	149	151	153	155	156	153	144	144	147	147	155	153	154	149	144	141	151	146	136	3559.	24	
14	133	130	128	126	127	128	136	142	146	145	141	133%	132%	135%	141	143	153	151	148	142	137%	136%	134%	134%	3300.	24	
15	133%	133%	134%	135%	136	131%	142%	150%	155%	154%	149	150%	147%	147	149	155	158%	158%	156%	152%	149%	148%	146%	145%	99999.	5	
16	144%	143%	141%	139%	138%	136%	151%	157%	160%	154%	154%	150%	143	145	151	150	155	161	154	153	148	145	143	148	99999.	12	
17	149	147	147	142	141	144	148	146	149	151	152	155	155	153	151	150	154	153	153	147	146	141	139	136	3546.	24	
18	135	134	132	131	132	133	139	151	154	153	152	150	146	147	157	156	156	158	156	149	143	143	140	138	3484.	24	
19	136	133	131	129	128	131	141	146	148	145	140	134%	133%	135%	136	142	148	151	151	146	143	142	141	140	3353.	24	
20	144	149	148	143	146	149	150%	150	154	151%	149	140	145	141	146	148	149	149	149	141	135%	133%	132%	129%	3510.	20	
21	128%	127%	128%	131%	130%	133%	136%	141%	140%	140%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	99999.	0	
22	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	99999.	13	
23	134%	134	133	132	132	133	140	148	150	149	147	145	147%	144%	148	148	151	152	153	148	146	145	141	139	3440.	24	
24	137	135	133	132	130	130	139	145	146	147	138	134%	132%	133%	137%	141	144	146	148	142	135%	137	139	139	3318.	24	
25	138	137	138	135	133	136	150	154	153	154	153	149	161	160	161	164	164	162	162	154	153	152	148	147	3619.	24	
26	144	144	142	138	137	138	147	152	154	159	154	141	149%	154%	147	153	157	155	157	156	153	147	149	149	3576.	24	
27	149	149	150	152	153	151	155	157	158	160	157%	153	157	157	155	157	158	156	154	149	148	142	144	149	3669.	24	
28	154	155	156	155	155	155	158	157	158	160	160%	160	148	155	161	162	162	157	156	152	152	149	146	151	3734.	24	
29	143	142	145	151	147	146	153	154	155	159	158	158	152%	154	151	159	165	162	155	154	148	147	142	142	3643.	24	
30	141	141	139	138	138	140	147	157	160	158	160	158%	153	155	159	160	162	162	150	149	148	144	140	136	3595.	24	
AV	139%	138%	138%	137%	137%	133%	145%	149%	152%	151%	149%	145%	144%	145%	148%	151%	153%	154%	152%	146%	142%	141%	140%	139%	3472.	5	
HR	26	26	26	26	27	26	26	26	26	26	27	27	28	29	29	29	29	29	28	28	28	27	27	27	27	650	

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 139.

ATLANTA (GA TECH) YEAR 1982 MONTH 6

ULTRAVIOLET KJ/M2

D A Y	ULTRAVIOLET KJ/M2																								TOTL	HR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	2	11%	52	88	126	162	190	176	180	148	128	99	58	26	5	0	0	0	0	1451.	24	
2	0	0	0	0	0	2	23	57	95	129	162	189	193	190	167	133	96	56	24	5	0	0	0	0	1523.	24	
3	0	0	0	0	0	1	15	40	35	35	27	4	46	154	159	125	78	43	17	3	0	0	0	0	784.	24	
4	0	0	0	0	0	1	11	16	20	13	27	17	30	78	116	47	41	21	22	4	0	0	0	0	463.	24	
5	0	0	0	0	0	1	15	32	42	109	152	137	166	160	160	139	88	58	27	5	0	0	0	0	1288.	24	
6	0	0	0	0	0	2	22	57	97	133	172	191	197	189	169	138	101	62	27	5	0	0	0	0	1567.	24	
7	0	0	0	0	0	2	22	54	90	129	153	165	154	152	134	115	81	59	26	5	0	0	0	0	1339.	24	
8	0	0	0	0	0	2	21	48	85	115	154	174	174	171	151	124	88	53	25	5	0	0	0	0	1391.	24	
9	0	0	0	0	0	2	18	42	74	101	129	157	171	162	137	119	87	53	23	5	0	0	0	0	1279.	24	
10	0	0	0	0	0	2	15	47\$	78	121	153	175	181	160	145	119	83	56	25	5	0	0	0	0	1363.	24	
11	0	0	0	0	0	2	19	49	83	120	115	144	150	180	163	129	92	55	23	4	0	0	0	0	1327.	24	
12	0	0	0	0	0	2	19	44	69	115	146	32	104	117	84	86	72	49	25	4	0	0	0	0	968.	24	
13	0	0	0	0	0	0	6	22	42	66	107	172	179	174	152	108	88	49	22	5	0	0	0	0	1191.	24	
14	0	0	0	0	0	2	19	50	83	117	147	166	191	178	160	125	82	52	23	5	0	0	0	0	1398.	24	
15	0	0	0	0	0	2*	17*	43*	76*	109*	145	148*	167*	162	146	111	78*	51*	23*	4*	0	0	0	0	99999.	*13	
16	0	0	0	0	0	2*	16*	40*	58*	126*	138*	162*	191	178	158	136	97	43	22	4	0	0	0	0	99999.	*17	
17	0	0	0	0	0	1	9	38	59	74	108	90	95	104	118	114	77	57	27	5	0	0	0	0	975.	24	
18	0	0	0	0	0	2	19	52	90	119	136	146	169	168	133	117	87	57	27	5	0	0	0	0	1329.	24	
19	0	0	0	0	0	2	19	51	89	127	162	186	194	190	170	135	94	55	24	5	0	0	0	0	1503.	24	
20	0	0	0	0	0	1	23\$	45	89	111\$	132	173	180	177	158	135	101	64	29	6	0	0	0	0	1425.	24	
21	0	0	0	0	0	1*	18*	45*	51*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	9999*	99999.	*9	
22	0	0	0	0	0	9999*	9999*	9999*	9999*	9999*	9999*	131*	126	158\$	189	93	126	107	65	28%	6	0	0	0	0	99999.	*18
23	0	0	0	0	0	1	17	46	79	111	139	147	158	159	128%	117	86	55	24	5	0	0	0	0	1271.	24	
24	0	0	0	0	0	1	17	47	82	113	147	167	185	167	162	132	97	55	25	5	0	0	0	0	1404.	24	
25	0	0	0	0	0	1	13	39	85	115	134	160	121	118	90	37	24	25	8	1	0	0	0	0	972.	24	
26	0	0	0	0	0	1	18	47	81	101	132	154	168	147	148	120	71	54	16	2	0	0	0	0	1262.	24	
27	0	0	0	0	0	0	5	16	22	24	93	151	82	57	25	103	52	28	18	5	0	0	0	0	682.	24	
28	0	0	0	0	0	0%	5	26	48	80	103\$	127	168	118	96	73	65	56	19	5	0	0	0	0	988.	24	
29	0	0	0	0	0	1	8	28	68	50	86	122	138	171	159	109	62	46	28	4	0	0	0	0	1080.	24	
30	0	0	0	0	0	1	15	35	68	119	122	141	149	141	130	115	85	22	1	0	0	0	0	0	1136.	24	
AV	0	0	0	0	0	1\$	15\$	41\$	71\$	99\$	128\$	141\$	152\$	155\$	136\$	114\$	81\$	50\$	23\$	4\$	0	0	0	0	1213.	\$	
HR	30	30	30	30	30	26	26	26	25	26	27	27	28	29	29	29	28	28	28	28	30	30	30	30	681		

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 \* - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS

Table 140.

ATLANTA (GA TECH) YEAR 1982 MONTH 6

AVAILABLE SUNSHINE %

DAY	HOUR																								AVG	HR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0	0	0	0	0	0	0	90	82	91	91	100	73	79	68	74	87	69	87	40	0	0	0	0	72.	24		
2	0	0	0	0	0	30	100	100	100	100	100	100	100	100	100	100	100	100	98	32	0	0	0	0	94.	24		
3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	46	100	100	77	39	0	0	0	0	0	26.	24		
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	20	0	0	0	0	2.	24		
5	0	0	0	0	0	0	0	0	1	1	51	73	46	65	62	83	95	65	87	96	0	0	0	0	51.	24		
6	0	0	0	0	0	0	80	100	100	100	100	100	100	100	100	100	100	100	100	100	16	0	0	0	91.	24		
7	0	0	0	0	0	0	92	100	100	100	100	100	100	100	99	99	90	73	100	97	17	0	0	0	89.	24		
8	0	0	0	0	0	0	75	90	100	100	100	100	100	100	100	100	100	100	100	91	0	0	0	0	89.	24		
9	0	0	0	0	0	0	44	72	100	100	100	100	100	100	100	100	100	100	100	75	0	0	0	0	84.	24		
10	0	0	0	0	0	0	0	41%	82	98	99	100	95	74	77	90	83	87	100	0	0	0	0	0	74.	24		
11	0	0	0	0	0	0	25	82	100	100	53	63	67	99	100	100	100	100	64	0	0	0	0	0	74.	24		
12	0	0	0	0	0	0	0	20	11	74	89	0	18%	5	0	0	1	5	39	0	0	0	0	0	18.	24		
13	0	0	0	0	0	0	0	0	0	3	29	75	69	76	76	47	81	81	0	0	0	0	0	0	38.	24		
14	0	0	0	0	0	0	47	100	100	100	100	100	100	96	96	100	93	100	78	0	0	0	0	0	85.	24		
15	0	0	0	0	0	0M	7M	100M	100M	100M	99	75M	92M	96	97	89	100M	99M	11M	0M	0	0	0	0	0	99999.	*13	
16	0	0	0	0	0	0M	31M	17M	17M	80M	56M	67M	91	87	87	100	99	22	2	0	0	0	0	0	0	99999.	*17	
17	0	0	0	0	0	0	0	0	0	3	6	0	0	1	43	64	31	53	43	0	0	0	0	0	0	17.	24	
18	0	0	0	0	0	0	4	81	100	92	67	67	80	85	65	73	78	95	100	9	0	0	0	0	0	70.	24	
19	0	0	0	0	0	0	85	100	100	100	99	100	100	100	100	100	100	100	64	0	0	0	0	0	0	88.	24	
20	0	0	0	0	0	0	16%	32	100	85%	70	85	80	83	78	89	98	100	99	0	0	0	0	0	0	75.	24	
21	0	0	0	0	0	0M	72M	69M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0	0	0	0	0	99999.	*9
22	0	0	0	0	0	0M	0M	0M	0M	0M	33M	42	69%	95	31	67	100	100	72	10	0	0	0	0	0	0	99999.	*18
23	0	0	0	0	0	0	42	100	100	100	100	81	83	98	70	97	98	100	59	0	0	0	0	0	0	79.	24	
24	0	0	0	0	0	0	52	100	100	100	100	100	100	99	100	100	100	100	100	29	0	0	0	0	0	89.	24	
25	0	0	0	0	0	0	0	17	99	96	79	87	35	32	15	0	0	0	0	0	0	0	0	0	0	32.	24	
26	0	0	0	0	0	0	40	71	46	36	53	59	66	52	73	65	11	44	0	0	0	0	0	0	0	43.	24	
27	0	0	0	0	0	0	0	0	0	0	10	32	6	0	10	0	0	0	0	0	0	0	0	0	0	4.	24	
28	0	0	0	0	0	0	0	0	4	13	14%	15	65	38	20%	9	11	72	0	0	0	0	0	0	0	19.	24	
29	0	0	0	0	0	0	0	0	1	0	4	12	39	66	72	46	9	42	50	0	0	0	0	0	0	24.	24	
30	0	0	0	0	0	0	0	0	26	62	52	61	65	57	66	77	84	18	0	0	0	0	0	0	0	40.	24	
AV	0	0	0	0	0	1%	28%	51%	60%	65%	68%	64%	67%	70%	70%	72%	67%	68%	55%	5%	0	0	0	0	0	57.	%	
HR	30	30	30	30	30	26	26	26	26	26	27	27	28	29	29	29	28	28	28	28	30	30	30	30	30	681		

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 FLAGS:  
 % - QUESTIONABLE HOURLY VALUE, INCLUDED IN SUMS  
 M - BAD OR UNAVAILABLE VALUE, NOT INCLUDED IN SUMS  
 \$ - ESTIMATED VALUE, BY INTERPOLATION BETWEEN ADJACENT HOURS  
 OR BY SUMMATIONS HAVING UNAVAILABLE HOURS